ENSR
10411 Old Placerville Road, Suite 210, Sacramento, California, 95827-2508
T 916.362.7100 F 916.362.8100 www.ensr.aecom.com

January 17, 2006

Mr. Craig Hunt
North Coast Water Board
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 94503-2097

RE: Quarterly Groundwater Monitoring Results/ Remedial System Status Report
Fourth Quarter 2005
Former Unocal Bulk Plant No. 0813
122 Leslie Street, Ukiah, California
RWQCB No. 1NMC405
ENSR Project No. 06940-264-100

Dear Mr. Hunt:

ENSR Corporation (ENSR) has been authorized by Union Oil Company of California (Unocal) to perform quarterly groundwater monitoring and to operate and maintain the groundwater remediation system at the site located at 122 Leslie Street, Ukiah, California (**Figure 1**). The site is a former bulk plant with a chain link fence around its perimeter. The locations of former and current site features are illustrated on **Figure 2**. Quarterly groundwater monitoring is intended to evaluate the distribution of petroleum hydrocarbon constituents in groundwater beneath the site. This report summarizes results of the samples collected from the site during the fourth quarter 2005. A section has been added to this report summarizing the status of the ozone sparging system that began operation in April 2005. The field work was performed in accordance with the field methods and procedures included in **Attachment A**.

Background

Two groundwater monitoring wells (MW-7 and MW-12) were installed as part of a soil and groundwater investigation associated with the former D.Z., Inc. Bulk Plant located adjacent to the former Unocal southern property boundary at 134 Leslie Street. In 1999, a soil and groundwater investigation was conducted that included advancement of on-site soil borings B-1 through B-7. A supplemental evaluation of soil and groundwater followed that included the advancement of on-site soil boring B-8 and the installation of on-site groundwater monitoring wells MW-1 and MW-2. A further supplemental evaluation of soil and groundwater beneath and in the vicinity of the site was conducted in 2002 that included drilling eight soil borings and installing groundwater monitoring wells MW-3 through MW-6 and MW-8. A door-to-door sensitive receptor survey within a 500-foot radius of the site and an underground utility search within the vicinity of the site were conducted in 2002.

In a letter dated November 20, 2003, the Regional Water Quality Control Board, North Coast Region (RWQCB) approved a Corrective Action Plan prepared by Environmental Resolutions, Inc. (ERI) of Petaluma, California dated June 18, 2003. On May 20, 2004, the RWQCB verbally approved a remedial design plan (RDP) dated February 3, 2004 prepared by ERI and reviewed by ENSR. The approved remedial options were ozone microsparging (C-Sparge™) and soil vapor extraction (SVE).

In late July 2003, ERI installed the nine C-Sparge/SVE wells associated with the remediation system at the site. Upon review of the completion depths of the C-Sparge/SVE wells, it is ENSR's opinion that the C-Sparge wells may be set too deep to effectively remediate the groundwater beneath the site. In a telephone conversation with the RWQCB on October 14, 2004, ENSR proposed collecting groundwater samples from selected on-site C-Sparge wells for chemical analysis to determine if the groundwater has been impacted at the screened interval depths [approximately 32 to 35 feet below ground surface (bgs)] of the C-Sparge wells. Based on the analytical results, ENSR submitted a *Revised Remedial Design Plan*

dated December 7, 2004. ENSR received a verbal approval from the RWQCB in mid-December 2004 and began implementation of the revised RDP in early January 2005.

On January 12 and 13, 2005, Woodward Drilling Company of Rio Vista, California (C-57 License #710079) advanced soil borings AS-10 through AS-18 under the oversight of an ENSR geologist. The borings were advanced using a truck mounted drill rig each to an approximate depth of 20 feet bgs using 8.25-inch diameter hollow stem augers. The soil borings were completed as air sparge wells AS-10 through AS-18. Sparge well construction details will be provided in ENSR's forthcoming Advanced Oxidation Process/ Biostimulation System and Remediation Well Installation Report.

A construction subcontractor (W.A. Craig, Inc. of Dixon, California) installed the ozone sparging system at the site in March and April 2005 under ENSR supervision. System operation began on April 18, 2005.

Groundwater Level Measurements

Depth to groundwater levels were measured in monitoring wells MW-1 through MW-9 on November 16, 2005 and are presented in **Table 1.** The ozone sparging system was shut down to allow groundwater levels to stabilize prior to collecting depth to groundwater measurements. Groundwater elevations were calculated and were used to construct a groundwater elevation contour map included as **Figure 3**.

On November 16, 2005, the groundwater flow direction just east of the site was generally south-southeast with an average hydraulic gradient of approximately 0.004 feet per foot (ft/ft). Onsite, the groundwater flow direction was generally to the east-northeast with an average hydraulic gradient of approximately 0.02 ft/ft. These directions and gradients are consistent with those historically observed at the site. Copies of the groundwater sampling information sheets are included in **Attachment B**. A summary of groundwater elevation data determined to date is presented in **Table 1**.

Groundwater Sampling and Analytical Results

Groundwater samples were collected from monitoring wells MW-1 through MW-9 on November 16, 2005. Groundwater samples were submitted to Alpha Analytical Laboratories in Ukiah, California (a state-certified laboratory) under chain-of-custody protocols. Samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B, total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8260, total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015, and total lead by EPA Method 200.9. Additionally, the samples taken from MW-1 and MW-2 were analyzed for bromate and bromide by EPA Method 300.1 with silver/barium cleanup, hexavalent chromium by EPA Method 7199, molybdenum and vanadium by EPA Method 200.7, selenium by EPA Method 200.9, and pH by EPA Method 150.1. These analytes were added to the sampling regimen to monitor for the formation of dissolved phase metals resulting from the oxidation reaction created by the ozone application. Bromate and bromide analysis was performed by BSK Analytical Laboratories, a state-certified laboratory located in Fresno, California.

TPHd was detected in monitoring wells MW-1, MW-3, and MW-4 with a maximum concentration of 10,000 micrograms per liter (μg/L) in MW-1. TPHg was detected in monitoring wells MW-1 and MW-3 with a maximum concentration of 360 μg/L in MW-1. Benzene concentrations were not detected above the laboratory reporting limits in any monitoring wells sampled during the fourth quarter 2005 event with the exception of MW-1, which had a concentration of 0.41μg/L.

Cumulative groundwater sampling results are summarized in **Table 1**. A map depicting dissolved concentrations of TPHg, TPHd, and benzene in groundwater for the fourth quarter 2005 is included as **Figure 4**. Isoconcentration contour maps for TPHd, TPHg, and benzene in groundwater for the fourth quarter

2005 sampling event are included as **Figure 5**, **Figure 6**, and **Figure 7**, respectively. A copy of the certified laboratory analytical report with chain-of-custody documentation is included in **Attachment C**.

Ozone Sparging System Description

The Advanced Oxidation Process/Biostimulation (AOP/B) system is primarily an ozone sparging system with capabilities for enhanced chemical oxidation and biostimulation through the addition of supplemental oxidizing agents and/or nutrients.

The AOP/B system delivers ozonated air from inside a modified freight container (remediation enclosure), to the subsurface via sparge tubing and PVC piping. The ozonated air is delivered through micro-porous sparge points installed in the bottom of sparge wells several feet below the water table. Ozonated air is typically delivered at flows of approximately one to five standard cubic feet per minute (SCFM) and at pressures from 7 to 25 pounds per square inch (PSI), depending on subsurface conditions. Ozone concentrations in the process flow stream typically range from 1,500 parts per million by volume (ppmv) to 10,000 ppmv.

The AOP/B system is a programmable-logic-controller (PLC) automated system capable of operating individual sparge points or several sparge points in any desired sequence. The system is equipped with an ozone sensor that transmits a signal to the PLC which is programmed to shut the system down in the event of an ozone leak within the remediation enclosure. The remediation enclosure is air conditioned and thermally insulated to maintain a constant temperature and thereby protect the electronic components. The thermal insulation also serves as a sound barrier to reduce noise levels outside of the remediation enclosure created by operation of the air compressor, air conditioner, and cooling fans.

Ozone Sparging System Operation

The system currently cycles between sparge points on a 37-minute sequence per cycle. Most sparging sequences begins with five minutes of air flow, followed by 30 minutes of air/ozone flow, then followed by two minutes of air flow (to purge the conveyance piping and tubing). The PLC program executes 12 air-ozone-air cycles, shuts down for 15 minutes, and then repeats the entire sequence.

Recent modifications have been made to the PLC program to reduce the ozone loading at selected sparge points. These modifications have been implemented in areas where petroleum hydrocarbon concentrations have been reduced and further oxidation is not required. Air sparging still occurs in these areas to enhance microbial development.

Sparging is performed sequentially between sparge points to minimize the local impact on the hydraulic gradient and to prevent further mobilization of the contaminant plume. The ozone application time interval relates to the approximate time it takes for a consistent flow pattern to develop and to achieve an optimum radius of influence. The system shuts down after the entire sequence to allow the equipment to cool.

Ozone Sparging System Performance

ENSR is documenting the AOP/B system performance with monthly monitoring and grab sampling at MW-1 and MW-2. Monthly samples have been collected at MW-1 and MW-2 since the system startup in April, 2005. These groundwater samples are being analyzed for TPHg, TPHd, and BTEX compounds. Additional analyses are also performed to ascertain the possible presence of dissolved metals, notably hexavalent chromium. Results for samples collected at MW-1 and MW-2 as part of the remedial status evaluation are provided in **Table 2**.

Due to inconsistent results between the monthly grab samples and the quarterly three-casing-volume purged samples, ENSR modified the monthly sampling protocol to eliminate the collection of grab samples and collect only three-casing-volume purged samples. All samples collected from MW-1 and MW-2 since August, 2005 were collected after purging according to the same protocol as the quarterly sampling. Graphs depicting TPHg and TPHd concentrations over time for MW-1 and MW-2 are included as **Figures 8** and **9**, respectively.

Conclusions/Recommendations

- TPHd continues to be detected in monitoring wells MW-1, MW-3, and MW-4 with a maximum concentration of 10,000 μg/L in MW-1. TPHd was detected in eight monitoring wells in the previous quarter with a maximum concentration of 83,000 μg/L in MW-1. Dissolved concentrations of TPHd in groundwater as well as the extent of the TPHd groundwater plume are significantly reduced as compared to the third quarter 2005.
- TPHg continues to be detected in monitoring wells MW-1 and MW-3 with a maximum concentration of 360 μg/L in MW-1. TPHg was detected in three monitoring wells in the previous quarter with a maximum concentration of 2,000 μg/L in MW-1. Dissolved concentrations of TPHg in groundwater as well as the extent of the TPHg groundwater plume are also significantly reduced as compared to the third quarter 2005.
- Benzene concentrations were not detected above the laboratory reporting limits in any monitoring wells sampled during the fourth quarter 2005 event with the exception of MW-1, which had a concentration of 0.41 μg/L.

ENSR recommends continued monthly groundwater monitoring in MW-1 and MW-2 as well as quarterly groundwater monitoring to assess the dissolved concentrations of petroleum hydrocarbon constituents. ENSR personnel will meet with the North Coast Water Board in January 2005 to assess the AOP/B system performance and discuss the path toward regulatory site closure.

Future Work

The next quarterly groundwater monitoring and sampling event is scheduled for February 2006. ENSR will also be monitoring performance of the ozone sparging system with monthly monitoring at MW-1 and MW-2. Quarterly updates will be provided.

Remarks/Signatures

The interpretations in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended. If you have any questions regarding this project, please contact Mr. Paul Wadding at (916) 362-7100.

Sincerely,
ENSR Corporation

Mike Fischer, E.I.T.
Project Engineer

Paul R. Wadding, P.E.
Project Manager

D. N. Peacock, Ph.D., P.G. #7801
Senior Project Manager

PROFESSIONAL GEOLOGIST • DAVID N. PEACOCK No. 7801 • STATE OF CALIFORNIA

MF/dk

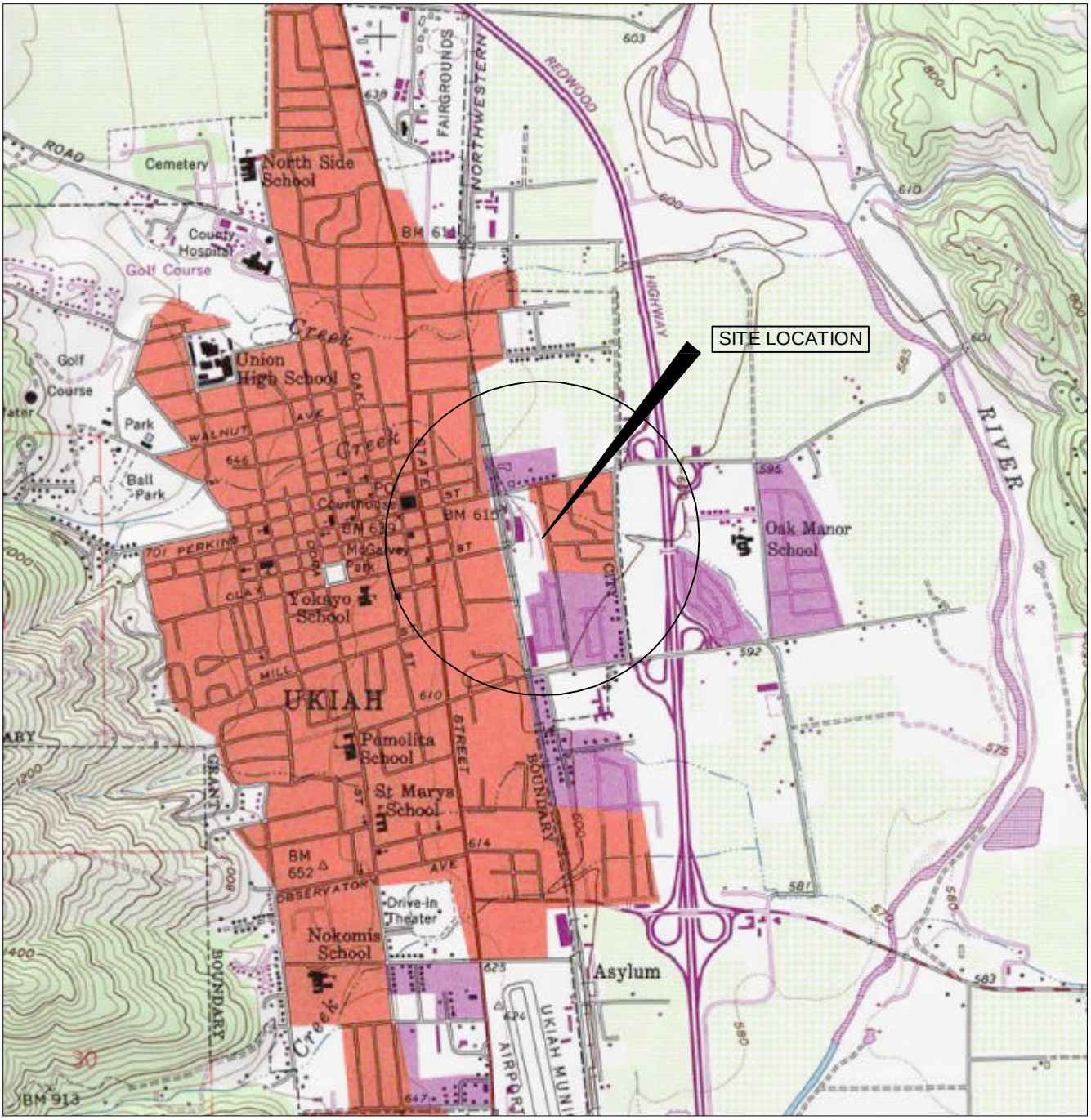
cc: Mr. John Frary, Union Oil Company of California

Attachments

Figures
1 Site Location Map
2 Site Plan
3 Groundwater Elevation Contour Map, November 16, 2005
4 Petroleum Hydrocarbon Concentration Map, November 16, 2005
5 TPHd Isoconcentration Map, November 16, 2005
6 TPHg Isoconcentration Map, November 16, 2005
7 Benzene Isoconcentration Map, November 16, 2005
8 TPHg and TPHd Concentration in MW-1
9 TPHg and TPHd Concentration in MW-2

Tables
1 Groundwater Monitoring Data and Analytical Results
2 Ozone Sparging System Monitoring

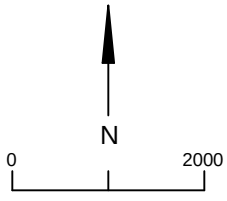
Attachments
A Field Methods and Procedures
B Groundwater Sampling Information Sheets
C Laboratory Analytical Results With Chain-Of-Custody Documentation



Map created with TOPO - 2003 National Geographic

MAP LOCATION

SOURCE: BASE MAP FROM USGS UKIAH, CA
7.5 MINUTE TOPOGRAPHIC 1975



Approximate Scale
in Feet

ENSR | AECOM

ENSR CORPORATION
10411 OLD PLACERVILLE ROAD SUIT 210
PHONE: (916) 362-7100
FAX: (916) 362-8100
WEB: HTTP://WWW.ENSR.AECOM.COM

SITE LOCATION MAP

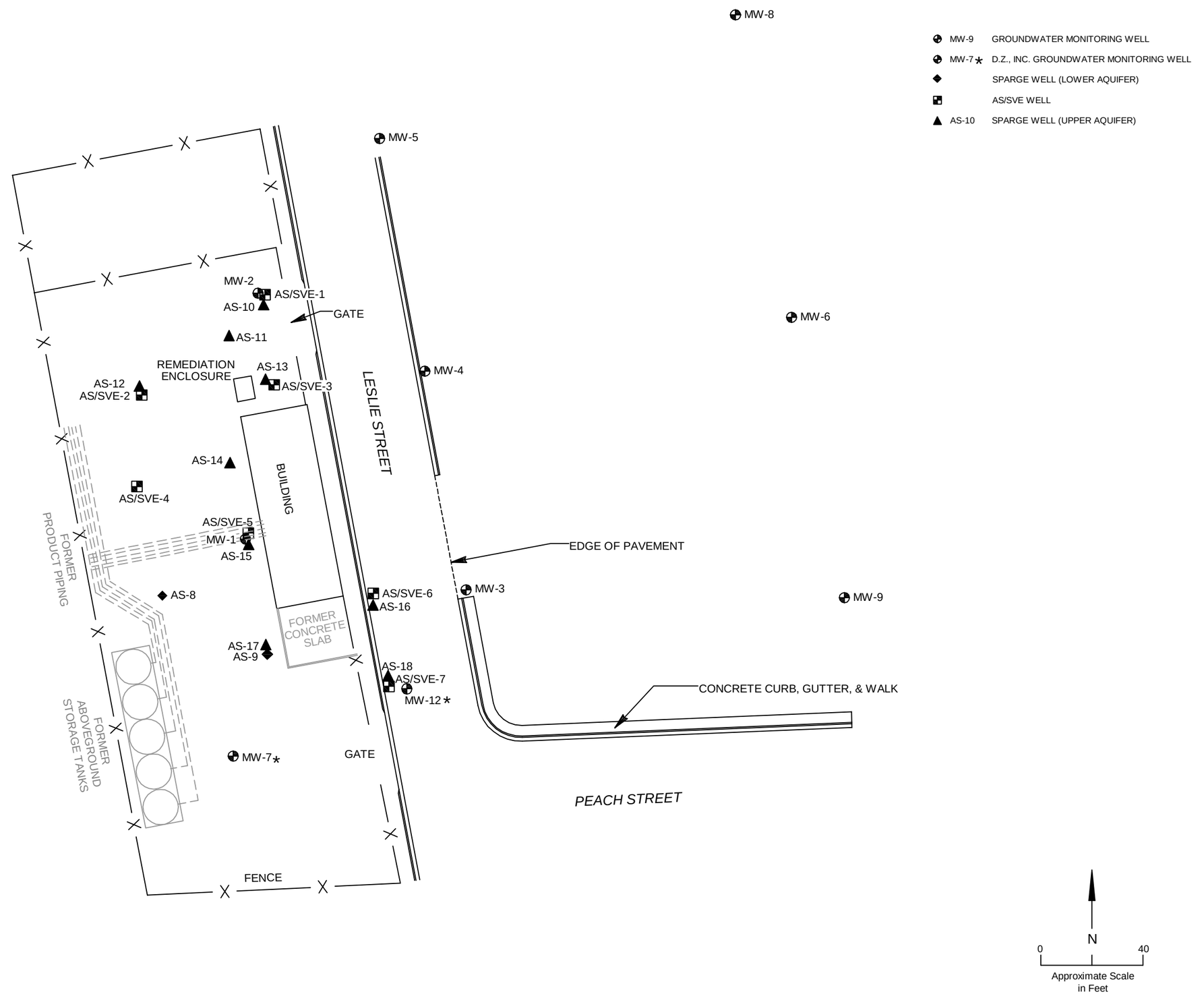
FORMER UNOCAL STATION 0813
122 LESLIE STREET
UKIAH, CALIFORNIA

FIGURE NUMBER: 1

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
MD	1-5-05 PR	06940-264	1

FILENAME:

J:\Projects\06940\0813-264\CAD\4Q05\0813 SITELOC FIG1.dwg, 1/5/2006 9:16:48 AM



REFERENCE: WELL LOCATIONS AND EXISTING SITE FEATURES ON THIS FIGURE ARE BASED ON A MAP PROVIDED BY MORROW SURVEYING ON 4/13/2005.

FILENAME: J:\Projects\06940\0813-264\CAD\4Q05\0813_SITEPLAN SURVEYED 4-13-05 fig2.dwg, 1/5/2006 8:24:11 AM

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
X	X	X	X

ENSR | AECOM

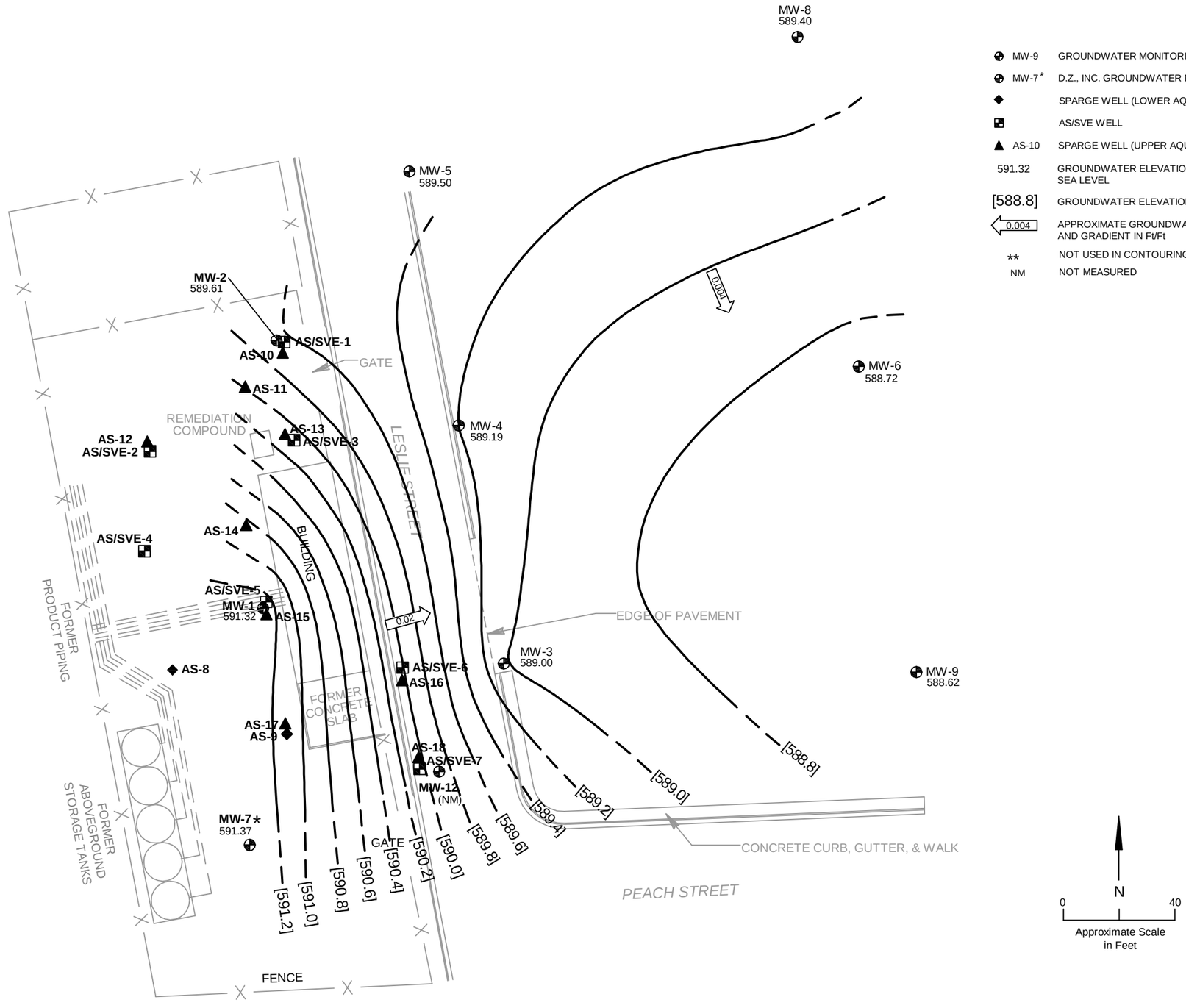
ENSR CORPORATION
10411 OLD PLACERVILLE ROAD SUITE 210
PHONE: (916) 362-7100
FAX: (916) 362-8100
WEB: HTTP://WWW.ENSR.AECOM.COM

SITE PLAN
4th QUARTER 2005 QMR
FORMER UNOCAL STATION 0813
122 LESLIE STREET
UKIAH, CALIFORNIA

SCALE	DATE	PROJECT NUMBER
1" = 40'	1/4/05 PR	06940-264

FIGURE NUMBER: 2

SHEET NUMBER: 1



MW-9 GROUNDWATER MONITORING WELL

MW-7* D.Z., INC. GROUNDWATER MONITORING WELL

SPARGE WELL (LOWER AQUIFER)

AS/SVE WELL

AS-10 SPARGE WELL (UPPER AQUIFER)

591.32 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

[588.8] GROUNDWATER ELEVATION CONTOUR

0.004 APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT IN Ft/Ft

** NOT USED IN CONTOURING

NM NOT MEASURED

REFERENCE: WELL LOCATIONS AND EXISTING SITE FEATURES ON THIS FIGURE ARE BASED ON A MAP PROVIDED BY MORROW SURVEYING ON 4/13/2005.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
X	X	X	X

ENSR | AECOM
ENSR CORPORATION
10411 OLD PLACERVILLE ROAD SUITE 210
PHONE: (916) 362-7100
FAX: (916) 362-8100
WEB: HTTP://WWW.ENSR.AECOM.COM

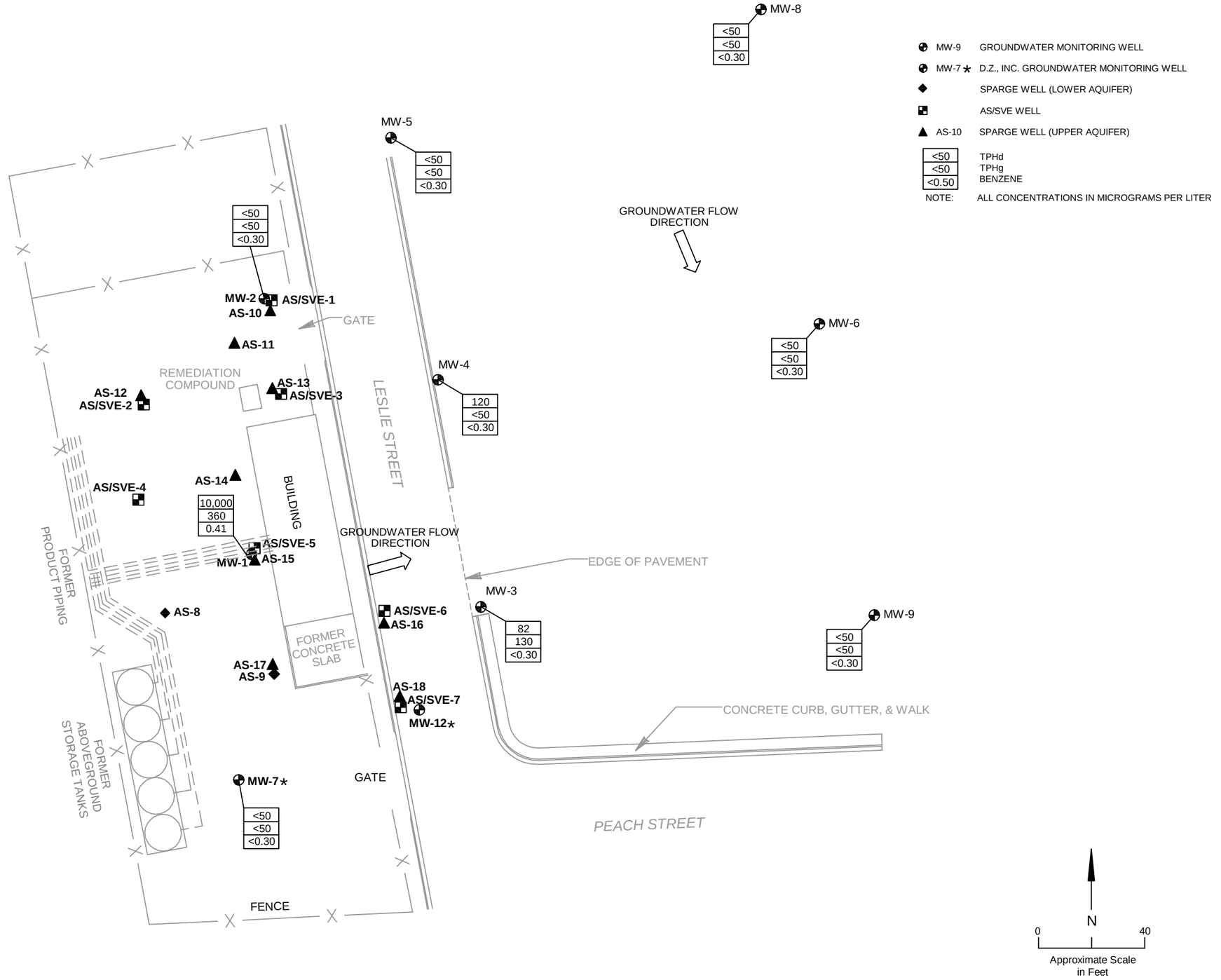
GW ELEV CONTOUR MAP 11-16-05
4th QUARTER 2005 QMR
FORMER UNOCAL STATION 0813
122 LESLIE STREET
UKIAH, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 40'	1/4/05 PR	06940-264

FIGURE NUMBER:
3

SHEET NUMBER:
1

J:\Projects\06940\0813-264\CAD\4Q05\0813 GW ELEV 4Q05 FIG3.dwg, 1/5/2006 8:22:08 AM



REFERENCE: WELL LOCATIONS AND EXISTING SITE FEATURES ON THIS FIGURE ARE BASED ON A MAP PROVIDED BY MORROW SURVEYING ON 4/13/2005.

REVISIONS	NO.	DESCRIPTION	DATE	BY

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
X	X	X	X

ENSR | AECOM
ENSR CORPORATION
10411 OLD PLACERVILLE ROAD SUITE 210
PHONE: (916) 362-7100
FAX: (916) 362-8100
WEB: HTTP://WWW.ENSR.AECOM.COM

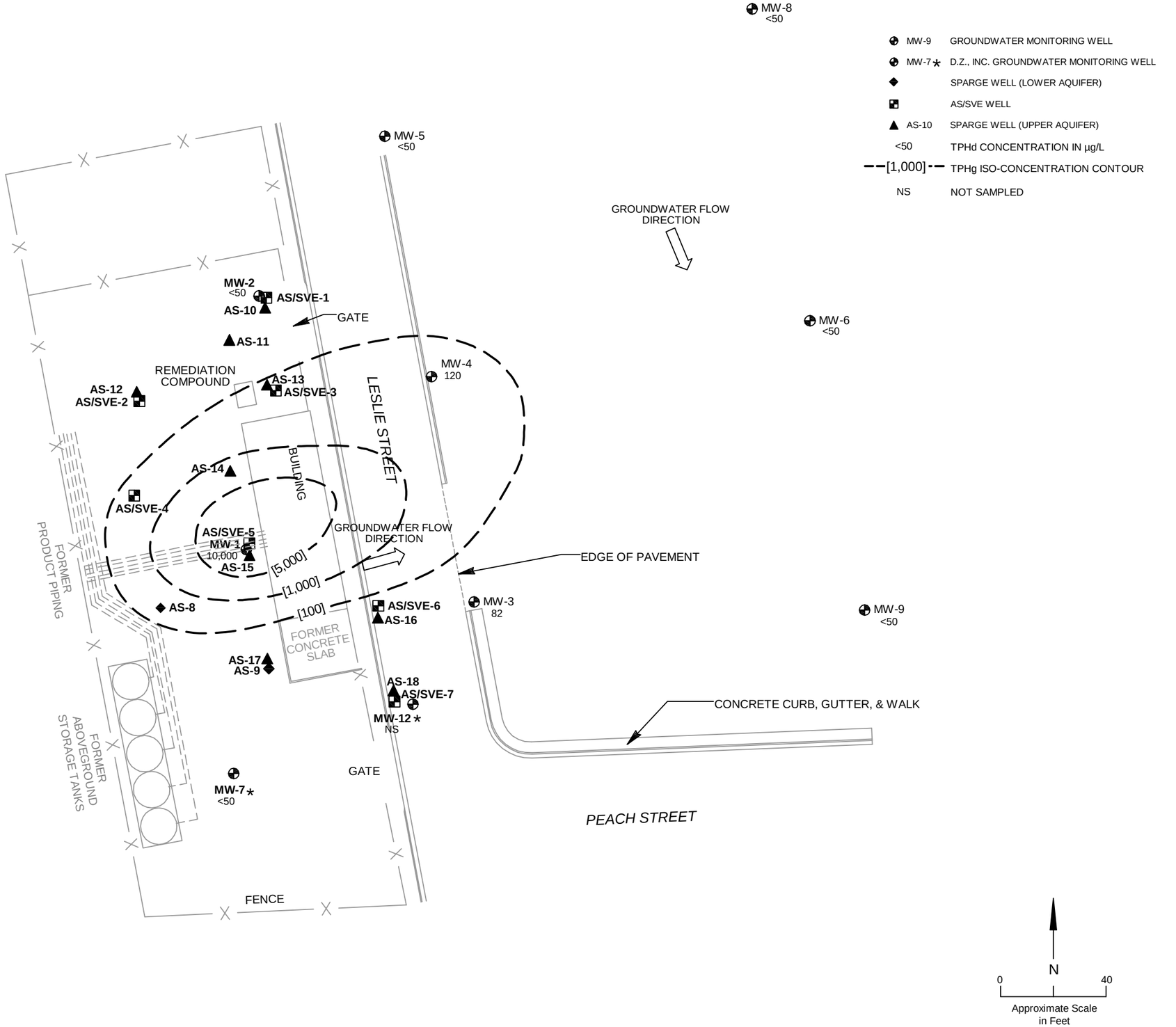
CONCENTRATION MAP 11-16-05

4th QUARTER 2005 QMR
FORMER UNOCAL BULK PLANT 0813
122 LESLIE STREET
UKIAH, CALIFORNIA

SCALE	DATE	PROJECT NUMBER
1" = 40'	1/4/05 PR	06940-264

FIGURE NUMBER: 4

SHEET NUMBER: 1



REFERENCE: WELL LOCATIONS AND EXISTING SITE FEATURES ON THIS FIGURE ARE BASED ON A MAP PROVIDED BY MORROW SURVEYING ON 4/13/2005.

J:\projects\06940\0813-264\CAD\4Q05\0813 TPHD 4Q05 FIG5.dwg, 1/5/2006 8:34:05 AM

FILENAME:

REVISIONS			
NO:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
X	X	X	X

ENSR | AECOM

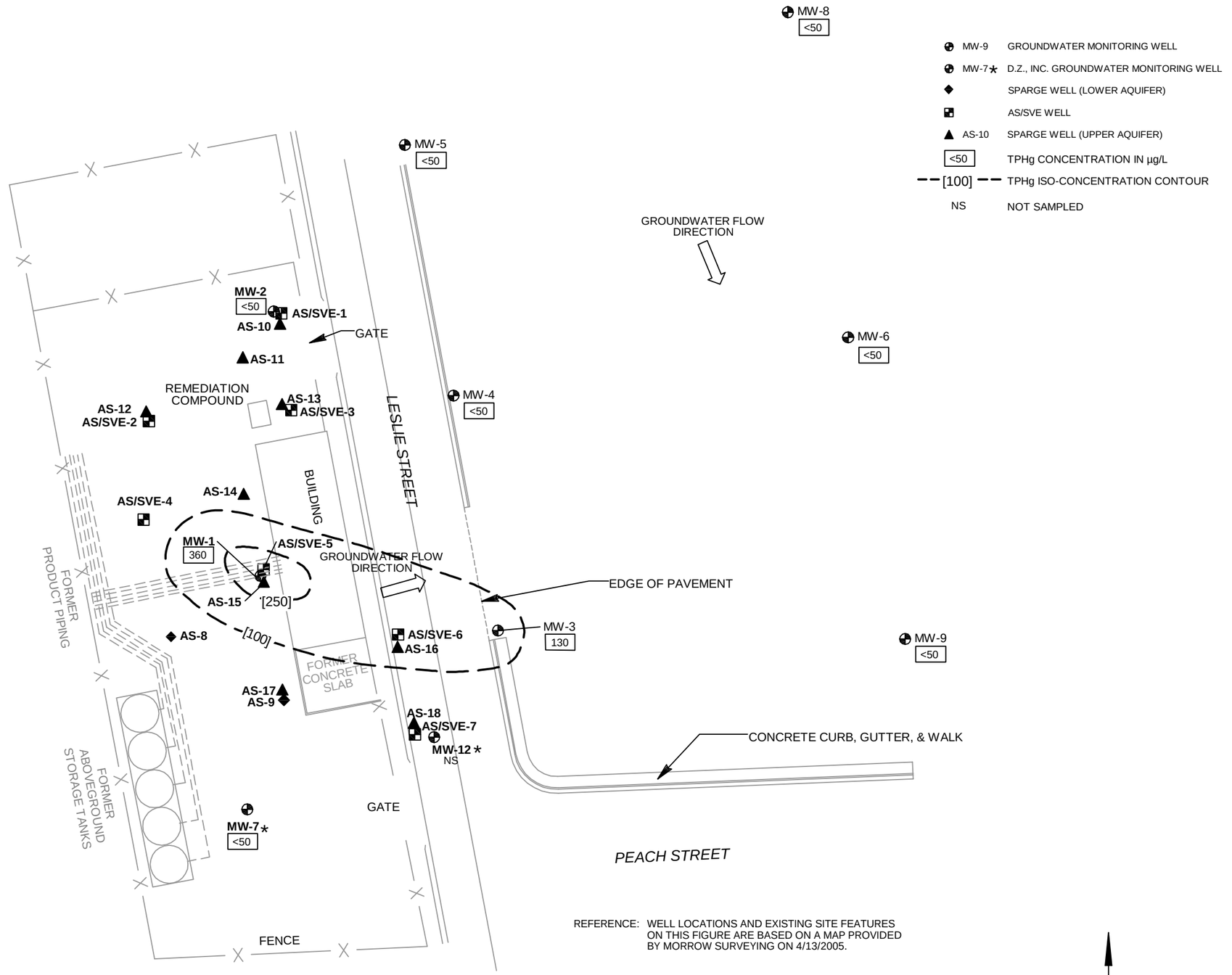
ENSR CORPORATION
10411 OLD PLACERVILLE ROAD SUITE 210
PHONE: (916) 362-7100
FAX: (916) 362-8100
WEB: HTTP://WWW.ENSR.AECOM.COM

TPHd ISO-CONC MAP 11-16-05
4th QUARTER 2005 QMR
FORMER UNOCAL STATION 0813
122 LESLIE STREET
UKIAH, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 40'	1/4/05 PR	06940-264

FIGURE NUMBER:
5

SHEET NUMBER:
1



REVISIONS			
NO:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
X	X	X	X

ENSR | AECOM
ENSR CORPORATION
10411 OLD PLACERVILLE ROAD SUITE 210
PHONE: (916) 362-7100
FAX: (916) 362-8100
WEB: HTTP://WWW.ENSR.AECOM.COM

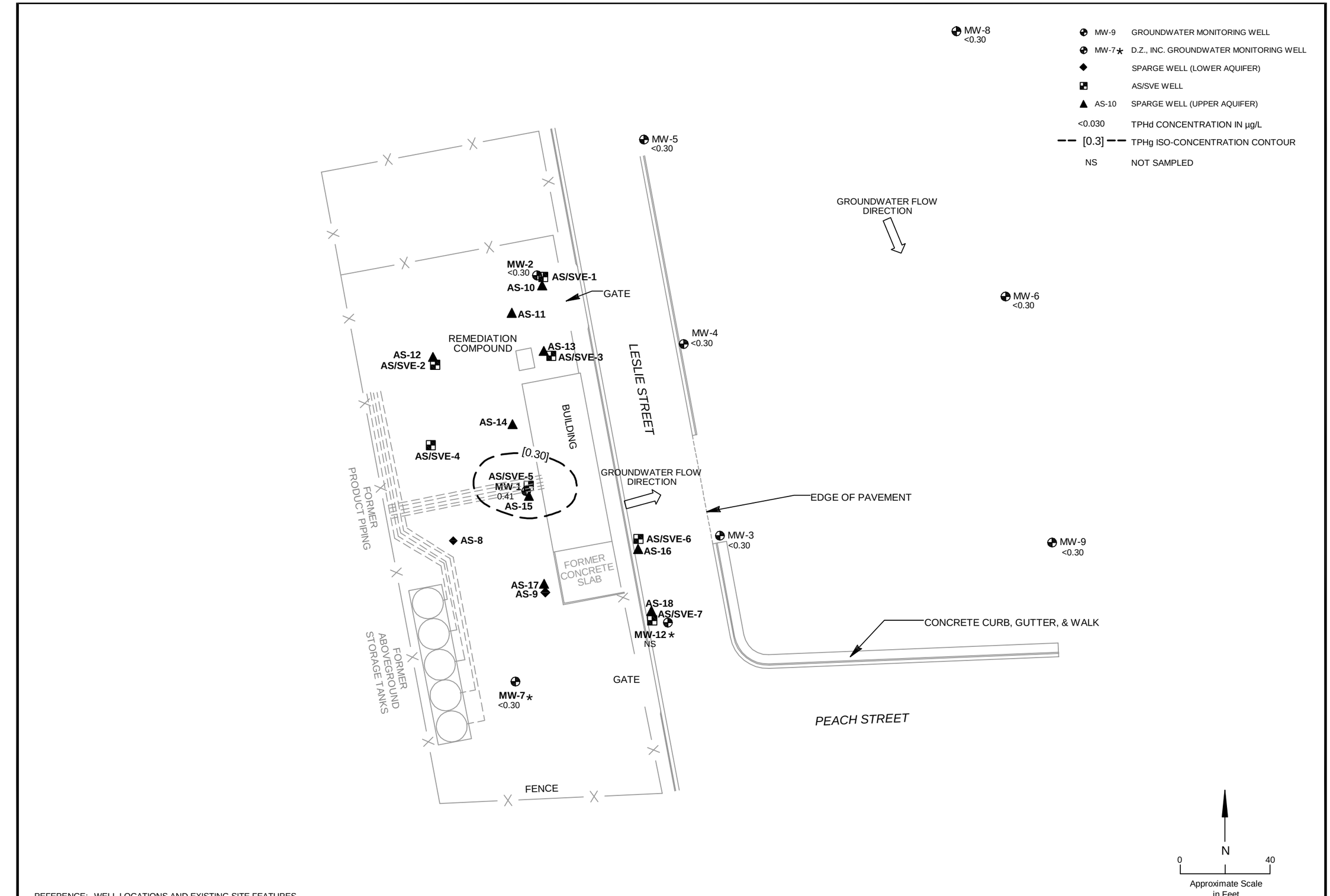
TPHg ISO-CONC MAP 11-16-05
4th QUARTER 2005 QMR
FORMER UNOCAL STATION 0813
122 LESLIE STREET
UKIAH, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 40'	1/4/05 PR	06940-264

FIGURE NUMBER:
6

SHEET NUMBER:
1

J:\Projects\06940\0813-264\CAD\4Q05\0813 TPHG 4Q05 FIG6.dwg, 1/5/2006 8:35:44 AM



REFERENCE: WELL LOCATIONS AND EXISTING SITE FEATURES ON THIS FIGURE ARE BASED ON A MAP PROVIDED BY MORROW SURVEYING ON 4/13/2005.

J:\Projects\06940\0813-264\CAD\4Q05\0813 BENZENE 4Q05 FIG7.dwg, 1/5/2006 8:23:11 AM

REVISIONS			
NO:	DESCRIPTION	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
X	X	X	X

ENSR | AECOM

ENSR CORPORATION
10411 OLD PLACERVILLE ROAD SUITE 210
PHONE: (916) 362-7100
FAX: (916) 362-8100
WEB: HTTP://WWW.ENSR.AECOM.COM

BENZENE ISO-CONC MAP 11-16-05
4th QUARTER 2005 QMR
FORMER UNOCAL STATION 0813
122 LESLIE STREET
UKIAH, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 40'	1/4/05 PR	06940-264

FIGURE NUMBER:
7

SHEET NUMBER:
1

Figure 8

TPHd and TPHg Concentrations in MW-1

Former Unocal Bulk Plant No. 0813

122 Leslie Street, Ukiah, California

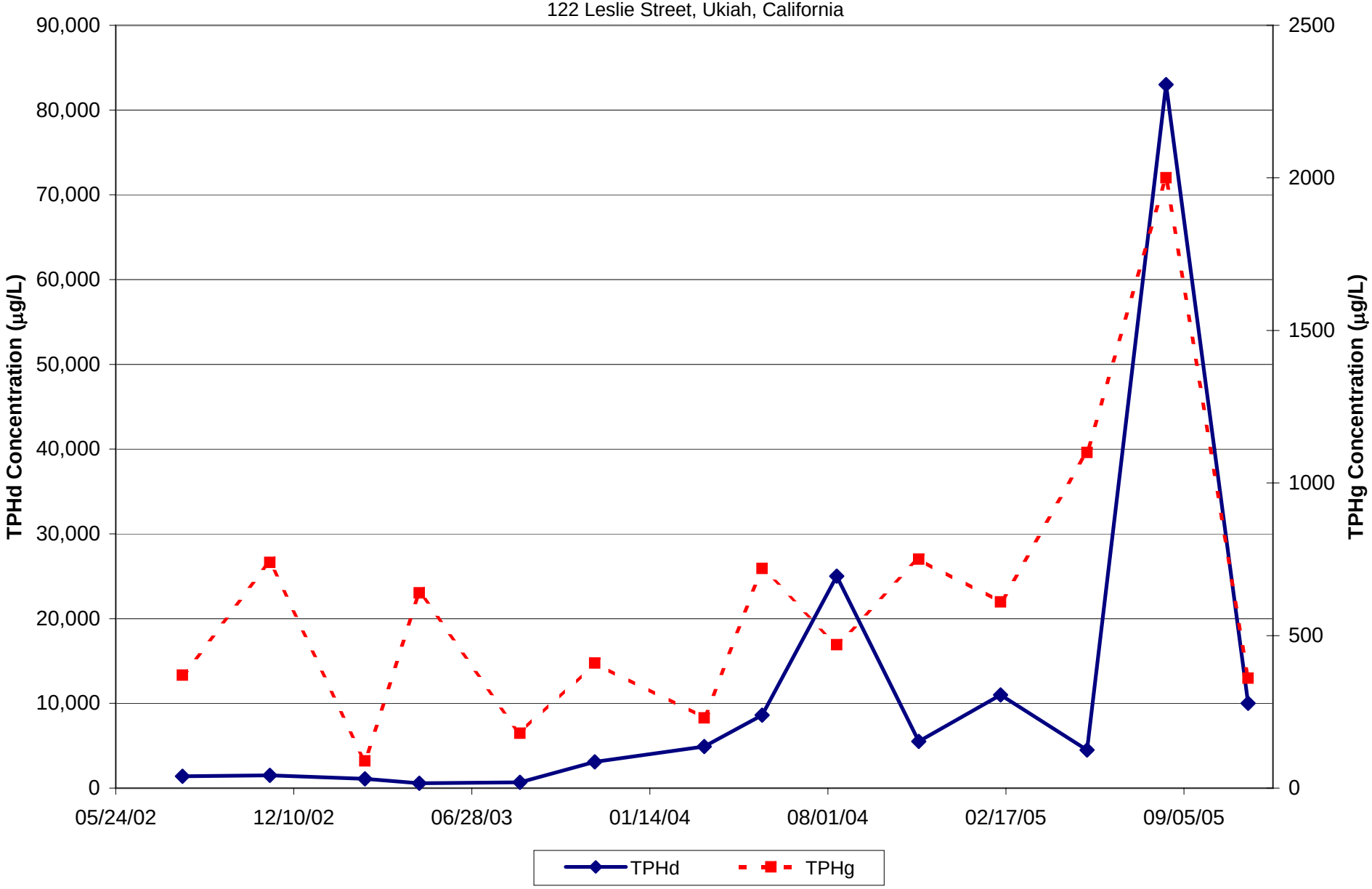


Figure 9
TPHd and TPHg Concentrations in MW-2
Former Unocal Bulk Plant No. 0813
122 Leslie Street, Ukiah, California

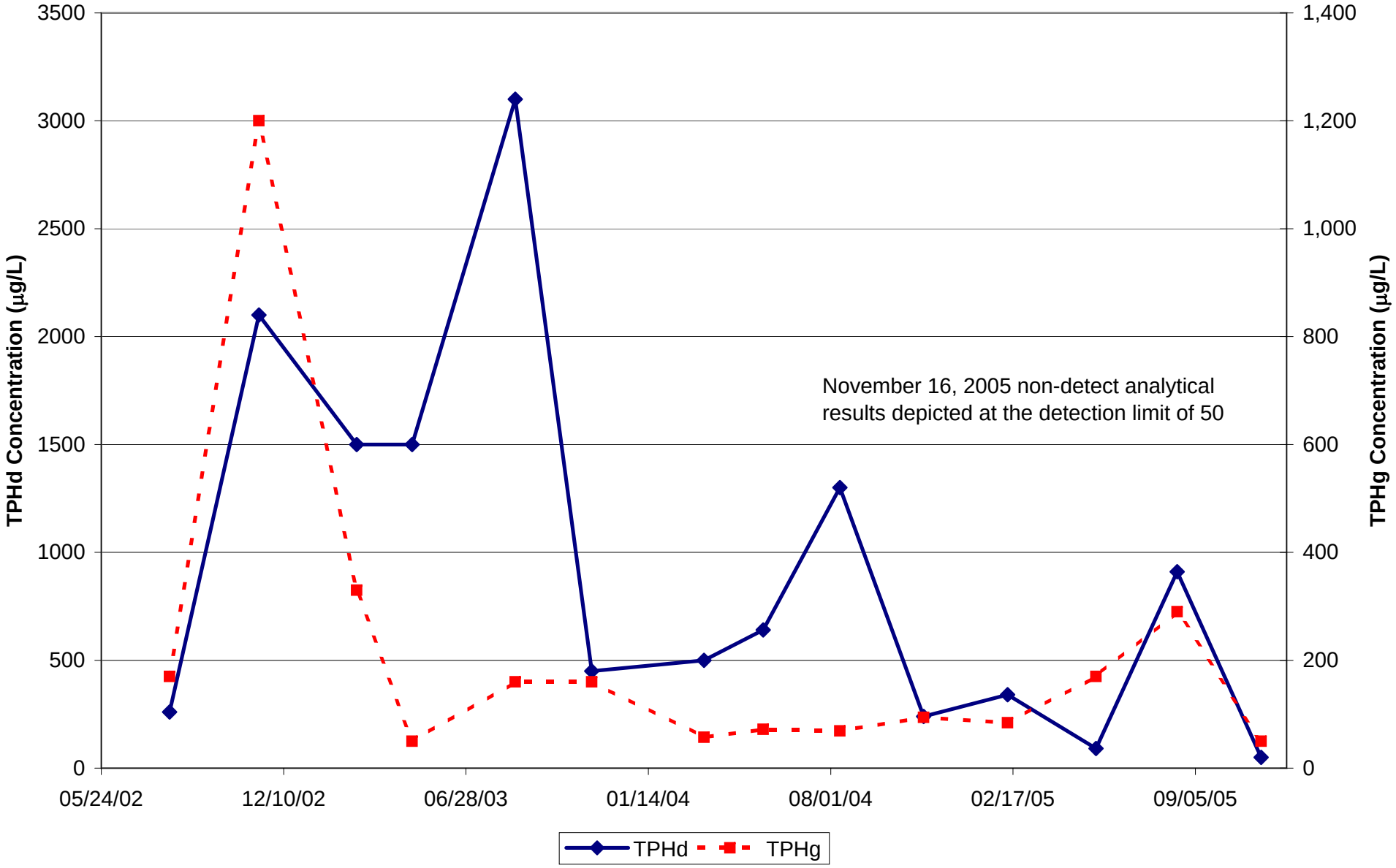


Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	T. Lead (µg/L)	TOG (µg/L)	PRE-PURGE D.O. (mg/L)
MW-1												
607.93	08/07/02[1]	16.11	591.82	1,400	370[2]	<0.50	<0.50	1.3	<0.50	<75	<5,000	--
	11/13/02	17.35	590.58	1,500	740	<0.50	<0.50	6.7	<0.50	<75	<5,000	--
	02/28/03	7.26	600.67	1,100	89	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	04/30/03	4.29	603.64	570	640	<0.50	<0.50	1.8	<0.50	<75	<5,000	--
	08/21/03	13.93	594.00	690	180	1.5	<0.50	0.87	2.1	<50	<5,000	--
	11/13/03	20.25	587.68	3,100	410	<0.50	<0.50	0.64	<0.50	<75	<5,000	--
	03/15/04	6.65	601.28	4,900	230 [4]	<0.50	<0.50	<0.50	2.0	7.6	<5,000	--
	05/19/04	10.50	597.43	8,600	720	<0.50	<0.50	3.8	3.7	9.0	5,000	--
	08/11/04	16.81	591.12	25,000	470 [4]	1.4	<1.0 [6]	2.2	4.5	15	<5,000	--
	11/11/04	17.73	590.20	5,500	750 [4]	1.3	4.1	11	6.4	6.8	<5,000	--
	02/11/05	7.67	600.26	11,000	610 [4]	<0.50	0.62	2.5	3.4	<5.0	<5,000	--
608.62	05/19/05	6.04	602.58	4,500	1,100	<1.5	<1.5	<2.5	<2.5	5.4	--	--
	08/16/05	11.80	596.82	83,000	2,000	0.39	<0.30	<0.50	<0.50	22	5,200	0.17
	11/16/05	**17.30**	**591.32**	**10,000**	**360**	**0.41**	**<0.30**	**<0.50**	**<0.50**	**12**	**NA**	**--**
MW-2												
607.78	08/07/02[1]	17.35	590.43	260	170[2]	<0.50	<0.50	0.91	<0.50	<75	<5,000	--
	11/13/02	20.23	587.55	2,100	1,200	<1.0	<1.0	19	<1.0	<75	<5,000	--
	02/28/03	7.55	600.23	1,500	330	<0.50	<0.50	2.4	0.57	<75	<5,000	--
	04/30/03	4.87	602.91	1,500	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,100	--
	08/21/03	14.54	593.24	3,100[2]	160	<0.50	0.60	1.1	4.0	<50	<5,000	--
	11/13/03	21.04	586.74	450	160	<0.50	<0.50	0.67	<0.50	<75	<5,000	--
	03/15/04	7.13	600.65	500	57 [4]	<0.50	<0.50	<0.50	<1.0	8.4	<5,000	--
	05/19/04	10.77	597.01	640	72	<0.50	<0.50	1.7	2.9	6.9	<5,000	--
	08/11/04	18.00	589.78	1,300	69 [4]	<0.50	<0.50	0.88	2.0	12	<5,000	--
	11/11/04	20.08	587.70	240	94 [4]	<0.50	0.99	2.0	2.5	<5.0	<5,000	--
	02/11/05	7.37	600.41	340	84 [4]	<0.50	0.87	1.5	<1.0	<5.0	<5,000	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	T. Lead (µg/L)	TOG (µg/L)	PRE-PURGE D.O. (mg/L)
608.56	05/19/05	7.73	600.83	91	170	<0.30	<0.30	<0.50	<0.50	2.2	--	--
MW-2	08/16/05	10.55	598.01	910 [7]	290	<0.30	<0.30	<0.50	<0.50	56	<5,000	0.19
(Cont.)	**11/16/05**	**18.95**	**589.61**	**<50**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**170**	**NA**	**--**
MW-3												
607.14	08/07/02[1]	17.29	589.85	28,000	1,300[2]	<0.50	<0.50	7.8	<0.50	360	5,300	--
	11/13/02	20.73	586.41	9,100	570	<5.0	<5.0	<5.0	<5.0	<75	5,400	--
	02/28/03	7.78	599.36	220	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	04/30/03	5.04	602.10	420	56	<0.50	<0.50	1.0	<0.50	<75	<5,000	--
	08/21/03	14.45	592.69	460	71	1.6	<0.50	<0.50	1.1	<50	<5,000	--
	11/13/03	21.45	585.69	1,300	260	2.4	<0.50	<0.50	<0.50	<75	<5,000	--
	03/15/04	7.38	599.76	360	87	0.71	<0.50	<0.50	<1.0	<5.0	<5,000	--
	05/19/04	10.90	596.24	430	110	<0.50	0.74	0.99	<1.0	<5.0	<5,000	--
	08/11/04	17.88	589.26	1,200	140 [4]	<0.50	0.56	1.3	2.4	<5.0	<5,000	--
	11/11/04	20.30	586.84	1,900	310 [4]	0.77	1.1	5.6	4.5	<5.0	<5,000	--
	02/11/05	7.64	599.50	230	<50	<0.50	0.59	0.82	<1.0	<5.0	<5,000	--
607.88	05/19/05	6.31	601.57	<50	270	<0.30	<0.30	<0.50	<0.50	<2.0	--	--
	08/16/05	12.13	595.75	370 [8]	470	<0.30	<0.30	<0.50	<0.50	2.4	<5,000	--
	11/16/05	**18.88**	**589.00**	**82**	**130**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**2.1**	**NA**	**--**
MW-4												
607.29	08/07/02[1]	17.16	590.13	69	<50	<0.50	<0.50	<0.50	<0.50	540	<5,000	--
	11/13/02	20.35	586.94	130	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	02/28/03	7.49	599.80	240	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	04/30/03	4.82	602.47	240	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,100	--
	08/21/03	14.54	592.75	120[2]	<50	<0.50	<0.50	<0.50	<0.50	<50	<5,000	--
	11/13/03	21.25	586.04	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*	NS*

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	T. Lead (µg/L)	TOG (µg/L)	PRE-PURGE D.O. (mg/L)
MW-4	03/15/04	7.02	600.27	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
(Cont.)	05/19/04	10.60	596.69	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	08/11/04	17.77	589.52	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	11/11/04	20.00	587.29	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	02/11/05	7.28	600.01	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
608.07	05/19/05	6.26	601.81	<50	<50	<0.30	<0.30	<0.50	<0.50	<2.0	--	--
	08/16/05	11.88	596.19	210 [8]	<50	<0.30	<0.30	<0.50	<0.50	3.0	<5,000	--
	11/16/05	**18.88**	**589.19**	**120 [10]**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**18**	**NA**	**--**
MW-5												
607.64	08/07/02[1]	17.33	590.31	4,100	210[2]	<0.50	<0.50	<0.50	<0.50	310	<5,000	--
	11/13/02	20.38	587.26	1,100	74	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	02/28/03	7.39	600.25	6,300	<50	<0.50	<0.50	<0.50	<0.50	<75	11,000	--
	04/30/03	4.81	602.83	3,700	<50	<0.50	<0.50	<0.50	<0.50	<75	6,600	--
	08/21/03	14.44	593.20	880[2]	<50	<0.50	<0.50	<0.50	<0.50	<50	<5,000	--
	11/13/03	21.15	586.49	30,000	61	<0.50	<0.50	<0.50	<0.50	130	7,300	--
	03/15/04	6.92	600.72	1,600 [5]	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	05/19/04	10.58	597.06	<50	<50	<0.50	<0.50	0.53	1.0	<5.0	17,000	--
	08/11/04	17.92	589.72	8,800 [5]	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	11/11/04	20.02	587.62	4,800 [5]	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	02/11/05	7.15	600.49	<50	<50	<0.50	<0.50	<0.50	<1.0	5.3	<5,000	--
608.40	05/19/05	6.16	602.24	<50	<50	<0.30	<0.30	<0.50	<0.50	<2.0	--	--
	08/16/05	11.90	596.50	170 [8]	<50	<0.30	<0.30	<0.50	<0.50	3.0	5,000	--
	11/16/05	**18.90**	**589.50**	**<50**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**<2.0**	**NA**	**--**
MW-6												
606.60	08/07/02[1]	16.75	589.85	<50[3]	<50	<0.50	<0.50	<0.50	<0.50	260	<5,000	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	T. Lead (µg/L)	TOG (µg/L)	PRE-PURGE D.O. (mg/L)
MW-6	11/13/02	20.57	586.03	<50	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
(Cont.)	02/28/03	7.10	599.50	<50	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	04/30/03	4.70	601.90	72	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,200	--
	08/21/03	13.88	592.72	<50	<50	<0.50	<0.50	<0.50	<0.50	<50	<5,000	--
	11/13/03	21.00	585.60	230	<50	<0.50	<0.50	<0.50	<0.50	190	<5,000	3.08
	03/15/04	6.66	599.94	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	05/19/04	10.15	596.45	<50	<50	<0.50	0.56	0.73	2.0	<5.0	<5,000	--
	08/11/04	17.32	589.28	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	11/11/04	19.72	586.88	<50	<50	<0.50	<0.50	<0.50	<1.0	8.3	<5,000	--
	02/11/05	6.94	599.66	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
607.36	05/19/05	5.93	601.43	<50	<50	<0.30	<0.30	<0.50	<0.50	13	--	--
	08/16/05	11.45	595.91	<120 [9]	<50	<0.30	<0.30	<0.50	<0.50	8.8	<5,000	--
	11/16/05	**18.64**	**588.72**	**<50**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**7.4**	**NA**	--
MW-7												
607.29	08/07/02[1]	15.50	591.79	56	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	11/13/02	16.58	590.71	<50	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	02/28/03	6.93	600.36	66	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	04/30/03	3.77	603.52	64	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,200	--
	08/21/03	13.39	593.90	<50	<50	<0.50	<0.50	<0.50	<0.50	<50	<5,000	--
	11/13/03	19.60	587.69	<50	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	0.83
	03/15/04	6.36	600.93	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	05/19/04	10.10	597.19	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	08/11/04	16.18	591.11	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	11/11/04	17.05	590.24	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	02/11/05	6.72	600.57	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
608.07	05/19/05	5.54	602.53	<50	<50	<0.30	<0.30	<0.50	<0.50	<2.0	--	--
	08/16/05	11.30	596.77	420 [8]	<50	<0.30	<0.30	<0.50	<0.50	<2.0	<5,000	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	T. Lead (µg/L)	TOG (µg/L)	PRE-PURGE D.O. (mg/L)
MW-7 (Cont.)	**11/16/05**	**16.70**	**591.37**	**<50**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**<2.0**	**NA**	**--**
MW-8												
606.53	08/07/02[1]	16.30	590.23	<50[3]	<50	<0.50	<0.50	<0.50	<0.50	190	<5,000	--
	11/13/02	20.15	586.38	<50	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	02/28/03	6.18	600.35	<50	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	04/30/03	3.98	602.55	59	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	08/21/03	13.33	593.20	<50	<50	<0.50	0.56	<0.50	<0.50	<50	<5,000	**--**
	11/13/03	20.60	585.93	140	<50	<0.50	<0.50	<0.50	<0.50	<75	<5,000	--
	03/15/04	5.72	600.81	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<5,000	**--**
	05/19/04	9.40	597.13	<50	<50	<0.50	<0.50	0.66	1.9	<5.0	<5,000	--
	08/11/04	16.85	589.68	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	11/11/04	19.07	587.46	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	02/11/05	6.03	600.50	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
607.30	05/19/05	5.04	602.26	<50	<50	<0.30	<0.30	<0.50	<0.50	4.9	--	**--**
	08/16/05	10.73	596.57	140 [8]	<50	<0.30	<0.30	<0.50	<0.50	7.6	<5,000	--
	11/16/05	**17.90**	**589.40**	**<50**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**11**	**NA**	**--**
MW-9	08/21/03[1]	14.25	592.42	<50	<50	<0.50	<0.50	<0.50	<0.50	<50	<5,000	1.7
606.67	11/13/03	21.45	585.22	55	<50	<0.50	<0.50	<0.50	<0.50	79	<5,000	--
	03/15/04	7.50	599.17	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<5,000	**--**
	05/19/04	10.78	595.89	<50	<50	0.94	0.77	0.95	3.2	<5.0	<5,000	--
	08/11/04	17.67	589.00	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	11/11/04	20.23	586.44	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<5,000	--
	02/11/05	7.77	598.90	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<5,000	--
607.44	05/19/05	6.65	600.79	<50	<50	<0.30	<0.30	<0.50	<0.50	7.4	--	**--**
	08/16/05	12.00	595.44	480 [8]	<50	<0.30	<0.30	<0.50	<0.50	9.8	<5,000	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	T. Lead (µg/L)	TOG (µg/L)	PRE-PURGE D.O. (mg/L)
MW-9 (Cont.)	**11/16/05**	**18.82**	**588.62**	**<50**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**11**	**NA**	**--**
MW-12												
607.33	NOT MONITORED/NOT SAMPLED			--	--	--	--	--	--	--	--	--
608.08	05/19/05	NOT MONITORED/NOT SAMPLED										
	08/16/05	NOT MONITORED/NOT SAMPLED										
	11/16/05	**NOT MONITORED/NOT SAMPLED**										
Trip Blank												
QA	08/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	--
	11/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	--
	02/28/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	--
	04/30/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	--
	08/21/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	**--**	**--**	**--**
	11/13/03	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	--
	05/19/04	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--	--	--
	08/11/04	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--
	11/11/04	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--
	02/11/05	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	--	--
	05/19/05	--	--	--	<50	<0.30	<0.30	<0.50	<0.50	**--**	**--**	**--**
	08/16/05	--	--	--	<50	<0.30	<0.30	<0.50	<0.50	--	--	--
	11/16/05	--	--	--	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**--**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

EXPLANATIONS:

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
TPHd = Total Petroleum Hydrocarbons as Diesel
NS* Unable to access well due to parked car
TPHg = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
T. Lead = Total Lead
TOG = Total Oil and Grease
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
D.O. = Dissolved Oxygen
mg/L = Milligrams per liter
µg/L = Microgram per liter
NA = Not Analyzed

* TOC elevations were re-surveyed on April 13, 2005 by Morrow Surveying. Historically, TOC elevation for MW-9 was surveyed September 4, 2003, by Morrow Surveying, Inc. referencing the previous benchmark. TOC elevations are referenced to msl, and were surveyed June 24, 2002, by Morrow Surveying, Inc. The benchmark used for the survey was a City of Ukiah benchmark.

1 Well development performed.

3 Laboratory report indicates no sample remained for re-extraction.

4 Although sample contains compounds in the retention time range associated gasoline, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on gasoline.

5 Although sample contains compounds in the retention time range associated diesel, the chromatogram was not consistent with the expected chromatographic pattern or "fingerprint". However, the reported concentration is based on diesel.

6 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

7 Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel

8 The sample chromatographic pattern does not resemble the diesel standard used for calibration

9 The method blank contains analyte at a concentration above the MRL; sample reporting limits were raised as necessary.

10 The sample chromatogram contains resolved peaks within the diesel range that do not resemble diesel.

Table 2

Ozone Sparging System Monitoring
Data and Analytical Results for MW-1 and MW-2
Former Unocal Bulk Plant No. 0813
122 Leslie Street
Ukiah, California

WELL ID/ TOC*(ft.)*	DATE	TPHd *(µg/L)*	TPHg *(µg/L)*	B *(µg/L)*	T *(µg/L)*	E *(µg/L)*	X *(µg/L)*	Cr+6 *(µg/L)*	pH *pH Units*	Molybdenum *(µg/L)*	Selenium *(µg/L)*	Vanadium *(µg/L)*	Bromate *(µg/L)*	Bromide *(µg/L)*
MW-1														
608.62	4/14/05*	4,700	1,100	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	120
	4/20/05*	260	160	ND	ND	ND	ND	ND	6.8	ND	ND	ND	ND	57
	5/09/05*	97	540	ND	ND	ND	ND	ND	7.1	ND	ND	ND	ND	39
	5/19/05	4,500	1,100	ND	ND	ND	ND	ND	6.6	ND	ND	ND	--	--
	6/17/05*	180	220	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	31
	8/16/05	83,000	2,000	0.39	<0.30	<0.50	<0.50	<10	6.7	<20	<5	<10	<5	6.5
	9/19/05	**3,600**	**1,200**	**0.35**	**<0.30**	**<0.5**	**<0.50**	**<1.0**	**6.3**	**<20**	**<5.0**	**<10**	**<5**	**83**
	10/18/05	**8,000**	**2,100**	**0.45**	**<0.30**	**<0.5**	**<0.50**	**<1.0**	**7.1**	**<20**	**<5.0**	**<10**	**<5**	**22**
	11/16/05	**10,000**	**360**	**0.41**	**<0.30**	**<0.50**	**<0.50**	**<1.0**	**6.8**	**<20**	**<5.0**	**<10**	**<5**	**72**
	12/15/05	**11,000**	**1,000**	**0.50**	**<0.30**	**<0.50**	**<0.50**	**<1.0**	**6.2**	**<20**	**<5.0**	**<10**	**<5**	**55**
MW-2														
608.56	4/14/05*	79	ND	ND	ND	ND	ND	ND	6.4	ND	ND	ND	ND	250
	4/20/05*	2,500	290	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	69
	5/09/05*	310	190	ND	ND	ND	ND	ND	6.8	ND	ND	2.4	ND	85
	5/19/05	91	170	ND	ND	ND	ND	ND	6.7	ND	ND	1.6	--	--
	6/17/05*	260	ND	ND	ND	ND	ND	0.1	6.8	ND	ND	ND	ND	49
	8/16/05	910	290	<0.30	<0.30	<0.50	<0.50	11	6.9	<20	<5	27	<5	81
	9/19/05	**120**	**150**	**<0.3**	**<0.30**	**<0.50**	**<0.50**	**<1.0**	**6.5**	**<20**	**<5.0**	**<10**	**<5**	**79**
	10/18/05	**<50**	**<50**	**<0.3**	**<0.30**	**<0.50**	**<0.50**	**<1.0**	**7.3**	**<20**	**<5.0**	**<10**	**16**	**23**
	11/16/05	**<50**	**<50**	**<0.30**	**<0.30**	**<0.50**	**<0.50**	**<1.0**	**7.2**	**<20**	**<5.0**	**<10**	**<5**	**69**
	12/15/05	**<50**	**140**	**0.37**	**0.33**	**1.1**	**2.3**	**<1.0**	**6.7**	**<20**	**<5.0**	**<10**	**<5**	**61**

EXPLANATIONS:

TPHd = Total Petroleum Hydrocarbons as Diesel
TPHg = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes (total)
Cr+6 = Hexavalent chromium
ND = Non-detect
-- = Not sampled
µg/L = micrograms per liter
TOC = Top of Casing
ft = feet above mean sea level

* = Samples collected as part of the monthly ozone system monitoring & sampling were collected as grab samples. All samples collected as part of the quarterly groundwater monitoring program and monthly samples collected after 8/16/05 were collected following a three-casing volume purge.

ATTACHMENT A

FIELD METHODS AND PROCEDURES

FIELD METHODS AND PROCEDURES
Unocal Site No. 813, 122 Leslie Street, Ukiah, CA (Site)
ENSR Project No. 06940-264

The following section describes field procedures that are to be used by ENSR personnel in the performance and quality management of the field work and data evaluation tasks involved with this project.

1. HEALTH AND SAFETY PLAN

The performance of fieldwork and other project services by ENSR and ENSR's subcontractors will be conducted according to guidelines established in the most current, Site-specific Health And Safety Plan (HASP). The HASP describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the HASP is maintained at the Site. Prior to performing work at the Site, personnel will have read the HASP, and sign that they have read the HASP and will perform work at the Site in accordance with the HASP.

2. DECONTAMINATION

Decontamination of equipment brought to and used at the Site is performed in accordance with ENSR SOP No. 7600. The soap solution and rinse water used for decontamination are collected and properly disposed of as described in Section 7.

3. GROUNDWATER DEPTH ASSESSMENT

Initially, all wells for groundwater depth assessment are opened and allowed to equilibrate to atmospheric pressure. Measuring the thickness of liquid-phase hydrocarbons (LPH), if present, and the depth to groundwater are performed in accordance with the applicable sections of ENSR SOP No. 7130. The water level measurement probe is subjectively analyzed for LPH sheen after each measurement.

4. SUBJECTIVE ANALYSIS OF GROUNDWATER

Prior to purging for groundwater monitoring, a groundwater sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

5. GROUNDWATER SAMPLE COLLECTION

5.1 Purged Groundwater Sample

The purging and collection of a groundwater sample are performed in accordance with ENSR SOP No. 7130. Well purging completion standards include minimum purge volumes, and the stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature as described in ENSR SOP Nos. 7124, 7121, and 7123, respectively. Groundwater parameter readings are obtained at regular intervals during the purging process (no less than once per case volume).

5.2 Dissolved Oxygen Measurement

Dissolved oxygen (D.O.) readings are collected in accordance with ENSR SOP No. 7122 using HORIBA meters (e.g. HORIBA Model U-22 or equivalent D.O. meter). These meters are equipped with a stirring device that enables the collection of in-situ readings.

5.3 Oxidation Reduction Potential (Redox Potential) Measurement

Redox potential readings are obtained with HORIBA meters (e.g. HORIBA Models U-22 or equivalent ORP meter). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the manufacturer's instruction manual.

5.4 Grab Groundwater Sample Collection

A grab groundwater sample is collected by lowering a disposable bailer to sufficient depth that the length of the bailer is below the water table.

6. PACKAGING AND SHIPMENT OF SAMPLES

Soil, groundwater, and/or gas samples from field work are packaged and shipped in accordance with ENSR SOP No. 7510.

7. INVESTIGATION-DERIVED WASTE MANAGEMENT

The purge water, decontamination residuals, and aqueous-based, liquid wastes from field work are placed in 55-gallon drums and temporarily stored on-site pending evaluation of disposal options. Solid wastes, such as disposable bailers and paper wipes, generated during field work are packaged in an appropriate container and separately from liquid wastes. Final disposal is performed consistent with accepted regulatory requirements and consistent with requirements specified by Unocal.

8. QUALITY CONTROL

Quality control samples are collected and submitted for analysis. The quality control samples may include field blanks, rinsate blanks, duplicate sample(s), and matrix spike/matrix spike duplicate samples as described in Section 5.0 of ENSR SOP No. 7130.

9. DOCUMENTATION

Documentation of field work is performed consistent with Section 6.0 of ENSR SOP No. 7130 and ENSR SOP No. 7515

ATTACHMENT B

GROUNDWATER SAMPLING INFORMATION DATA

ENSR

GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet below TOC)

Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Date: 11/16/05
Recorded by: JDR

Sampling Order/ Well No.	Time Opened	CGI	PID	O2	Time Measured	Depth to Gr. Water	Measured Total Depth	Depth to Product	Product Thickness	Comments (TOC/TOB) (product skimmer in well)	
MW-9	0834				0915	18.92	24.61			~~TAKE D.O. READING NO DO METER.~~	9
MW-6	0836				0920	18.04	23.41				6
MW-8	0838				0925	17.90	24.79				8
MW-7	0900				0955	16.70	24.58				7
MW-4	0848				0935	18.80	25.91				4
MW-3	0850				0940	18.98	25.91				3
MW-2	0855				0945	18.95	24.29				2
MW-5	0844				0930	18.90	23.39				5
MW-1	0857				0950	17.30	24.11				1
MW-12	NA	NA	NA	NA	NA	NA	NA			DO NOT SAMPLE	12

Notes:

Water measurement and sampling order: MW-2, MW-1.

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-9**

Well [X] Piezometer [ ]

Field Tech(s): JDR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other —

Casing Material: **pvc**
Well Diameter: 2.00 in.
Total Depth: 24.61 ft from TOC
Depth to Water: 10.82 ft from TOC
Water Column: 13.79 ft.
Water Column Volume: 0.93 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 19.98' (4.63)

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1030	0 0.5	8.97	132	18.8	32.0	6.4	<5	CLR		
1035	1 1.5	6.22	125	18.6	31.7	6.4	<5	MILKY		
1040	2 2.5	4.15	132	18.7	30.0	6.5	<5	"		
1045	3 3.5	4.00	135	18.9	30.4	6.6	<5	"		
	4									

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other —
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-9	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1055
"	1	1-L Amber	None	TRPH (1664)	1055
"	1	250-mL Amber	None	TPHd (8015M)	1055
"	1	500-mL Poly	HNO3	Total Lead (6010)	1055

Comments:

Signature: [signature]

Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET

Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-6**

Well [X] Piezometer [ ]

Field Tech(s): JDR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other —

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 23.41 ft from TOC
Depth to Water: 18.64 ft from TOC
Water Column: 4.77 ft.
Water Column Volume: 0.76 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column 3.82 X .8) = 18.59'

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1110	0 0.5	9.70	188	16.8	22.6	6.2	~5	LT BROWN		
1115	1 1.5	8.27	168	16.7	22.5	6.2	877	MURKY		
1120	2 2.5	6.63	187	16.7	22.4	6.1	410	"		
1125	3 3.5	6.43	186	16.7	22.4	6.0	233	"		
	4									

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other —
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-6	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1135
	1	1-L Amber	None	TRPH (1664)	1135
	1	250-mL Amber	None	TPHd (8015M)	1135
	1	500-mL Poly	HNO3	Total Lead (6010)	1135

Comments:

Signature: [signature]

Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET

Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-8**

Well [X] Piezometer [ ]

Field Tech(s): JR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other —

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 24.79 ft from TOC
Depth to Water: 17.90 ft from TOC
Water Column: 6.89 ft.
Water Column Volume: 1.1 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 19.28' (5.51)

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1135	0 0.5	12.7	32	16.8	22.2	6.6	270	CLR		
1140	1 1.5	10.8	36	16.7	23.0	6.4	284	CLR		
1145	2 2.5	6.4	39	16.7	23.2	6.4	100	CLR		
1150	3 3.5	6.8	46	16.8	23.2	6.2	98	"		
	4									

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other —
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-8	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1200
	1	1-L Amber	None	TRPH (1664)	1200
	1	250-mL Amber	None	TPHd (8015M)	1200
	1	500-mL Poly	HNO3	Total Lead (6010)	1200

Comments:

Signature: [signature] Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET

Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-7**

Well [X] Piezometer [ ]

Field Tech(s): JDR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05 DC PUMP
Purge Method: Disposable bailer/other _____

Casing Material: PVC
Well Diameter: 4.00 in.
Total Depth: 24.58 ft from TOC
Depth to Water: 16.70 ft from TOC
Water Column: 8.00 ft.
Water Column Volume: 5.28 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 18.18 (6.4)

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1208	0 0.5	7.8	233	18.8	22	6.6	184	CLR		
1216	1 6.0	6.2	238	18.7	23	6.7	10	"		
1222	2 12.0	6.3	241	18.6	23	6.4	0	"		
1230	3 18.0	5.8	242	18.9	23	6.4	"	"		
	4									

Sample Collection:
Date Sampled: 11/16/05 DC PUMP
Sampling Method: Disposable Bailer / Other _____
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-7	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1235
	1	1-L Amber	None	TRPH (1664)	1235
	1	250-mL Amber	None	TPHd (8015M)	1235
	1	500-mL Poly	HNO3	Total Lead (6010)	1235

Comments: _____

Signature: _____ Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-4**

Well ☒ Piezometer ☐

Field Tech(s): JDR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other PVC

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 25.91 ft from TOC
Depth to Water: 18.08 ft from TOC
Water Column: 7.83 ft.
Water Column Volume: 1.12 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column 5.62 X .8) = 20.29

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1240	0 0.5	10.3	208	18.2	28	6.5	497	MILKY		
1245	1 2.0	8.7	212	18.2	27	6.5	349	LT TAN		
1250	2 3.5	5.3	219	18.3	27	6.4	184	LT ORANGE		
1255	3 4.5	4.4	220	18.4	27	6.2	122	LT ORANGE		
	4									

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-4	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1305
	1	1-L Amber	None	TRPH (1664)	1305
	1	250-mL Amber	None	TPHd (8015M)	1305
	1	500-mL Poly	HNO3	Total Lead (6010)	1305

Comments:

Signature:

Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-3**

Well ☒ Piezometer ☐

Field Tech(s): JDR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other —

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 24.29 ft from TOC
Depth to Water: 18.88 ft from TOC
Water Column: 7.07 ft.
Water Column Volume: 1.12 gal (WC X VF)

Volume	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
Factor (VF)	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 20.29'

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1300	0 0.5	6.8	-93	19.4	68.8	6.6	272	CLR		
1315	1 2.0	6.2	-108	19.9	56.7	6.5	421	"		
1320	2 3.5	4.7	-112	18.9	55.7	6.5	305	"		
1325	3 5.0	4.9	-122	19.0	55.2	6.4	189	"		
	4									

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other —
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-3	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1335
"	1	1-L Amber	None	TRPH (1664)	1335
"	1	250-mL Amber	None	TPHd (8015M)	1335
"	1	500-mL Poly	HNO3	Total Lead (6010)	1335

Comments:

Signature: [signature]

Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-2**

Well [X] Piezometer [ ]

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other —

Field Tech(s): JDR

Weather Conditions: SUNNY

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 25.91 ft from TOC
Depth to Water: 18.95 ft from TOC
Water Column: 6.96 ft.
Water Column Volume: 1.11 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 5.57 20.34'

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1338	0	0.5	11.9	-44	18.4	29.3	7.0	-5.0	CLR		
1345	1	1.5	8.3	-46	18.3	37.5	6.8	-5.0	LT GREY		
1349	2	2.5	5.3	-49	18.0	39.9	6.6	-5.0	LT GREY		
1348	3	3.5	4.8	-48	17.8	40.4	6.6	-5.0	" "		
	4										

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other —
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-2	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1400
	1	1-L Amber	None	TRPH (1664)	1400
	1	250-mL Amber	None	TPHd (8015M)	1400
	1	500-mL Poly	HNO3	Total Lead (6010)	1400
	1	250-mL Amber	None	Bromate (300)	1400
	1	500-mL Poly	None	Bromide (300.0)	1400
	1	500-mL Poly	None	Chromium VI (7199) / pH (150.1)	1400
	1	500-mL Poly	HNO3	Molybdenum (200.7) / Selenium (200.9) / Vanadium (200.7)	1400

Comments: FIELD FILT.

Signature: [signature]

Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-5**

Well [X] Piezometer [ ]

Field Tech(s): JDR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other —

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 23.39 ft from TOC
Depth to Water: 19.90 ft from TOC
Water Column: 4.49 ft.
Water Column Volume: 0.72 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 19.80 (3.59)

Time	Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1435	0 0.5	7.7	-24	16.2	27	6.10	571	CLR		
1440	1 1.5	6.2	-26	17.8	28	6.4	433	"		
1445	2 2.5	4.1	-26	17.7	29	6.4	489	"		
1450	3 3.5	3.5	-25	17.6	27	6.4	608	"		
	4									

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other —
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1500
	1	1-L Amber	None	TRPH (1664)	1500
	1	250-mL Amber	None	TPHd (8015M)	1500
	1	500-mL Poly	HNO3	Total Lead (6010)	1500

Comments:

Signature: [signature]

Date: 11/16/05

ENSR

GROUNDWATER SAMPLING DATA SHEET
Site Address: 122 Leslie St., Ukiah, CA
ENSR No. 06940-264-100
Unocal No. 813

Well/Piezo ID: **MW-1**

Well [X] Piezometer [ ]

Field Tech(s): JDR

Weather Conditions: SUNNY

Well Purging:
Date Purged: 11/16/05
Purge Method: Disposable bailer/other ——

Casing Material: PVC
Well Diameter: 2.00 in.
Total Depth: 24.11 ft from TOC
Depth to Water: 17.30 ft from TOC
Water Column: 6.81 ft.
Water Column Volume: 1.10 gal (WC X VF)

Volume Factor (VF)	3/4" = 0.02	1" = 0.04	2" = .16	3" = .38
	4" = .66	5" = 1.02	6" = 1.50	12" = 5.80

5.45

80% Recovery from TOC: = Total Depth - (Water Column X .8) = 18.66

Time		Volume Removed (gal)	DO (mg/L)	Redox Potential (ORP) (mVolts)	Temperature (°C)	Specific Conductivity (uS/cm)	pH	Turbidity (NTUs)	Color/Clarity	Other	Other
1515	0	0.5	9.7	-96	18.9	29.7	6.8	-5.0	LT GREY	STINKY	
1520	1	1.5	7.4	-99	18.8	29.7	6.8	-5.0	LT GREY	"	
1525	2	2.5	6.80	-103	18.7	29.9	6.6	-5.0	LT GREY	"	
1530	3	3.5	4.9	-110	18.8	30.4	6.4	-5.0	"	"	
	4										

Sample Collection:
Date Sampled: 11/16/05
Sampling Method: Disposable Bailer / Other ——
Sample Type: Grab

Sample ID	# of containers	Container Type	Preservation	Analysis	Time
MW-1	3	40-mL VOA	Ice/HCl	TPHg / BTEX (8260)	1540
"	1	1-L Amber	None	TRPH (1664)	1540
"	1	250-mL Amber	None	TPHd (8015M)	1540
"	1	500-mL Poly	HNO3	Total Lead (6010)	1540
"	1	250-mL Amber	None	Bromate (300)	1540
"	1	500-mL Poly	None	Bromide (300.0)	1540
"	1	500-mL Poly	None	Chromium VI (7199) / pH (150.1)	1540
"	1	500-mL Poly	HNO3	Molybdenum (200.7) / Selenium (200.9) / Vanadium (200.7)	1540

Comments: PRODUCT (DIESEL) SHEEN ! FIELD FILT.

Signature: [signature]

Date: 11/16/05

ATTACHMENT C

LABORATORY ANALYTICAL RESULTS WITH CHAIN-OF-CUSTODY DOCUMENTATION

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

04 October 2005

Margret Riggin
ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
RE: Unocal #0813, Ukiah
Work Order: A509493

Enclosed are the results of analyses for samples received by the laboratory on 09/19/05 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A509493-01	Water	09/19/05 15:55	09/19/05 17:20
MW-2	A509493-02	Water	09/19/05 16:45	09/19/05 17:20
QA	A509493-03	Water	09/19/05 00:00	09/19/05 17:20

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Metals by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (A509493-01) Water	**Sampled: 09/19/05 15:55**	**Received: 09/19/05 17:20**								
Lead	**0.0063**		0.0020	mg/l	1	AI51902	09/20/05	09/29/05	EPA 200.9	
MW-2 (A509493-02) Water	**Sampled: 09/19/05 16:45**	**Received: 09/19/05 17:20**								
Lead	**0.063**		0.0080	mg/l	4	AI51902	09/20/05	10/03/05	EPA 200.9	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Metals (Dissolved) by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (A509493-01) Water Sampled: 09/19/05 15:55 Received: 09/19/05 17:20										
Molybdenum, dissolved	ND	0.0014	0.020	mg/l	1	AI52009	09/20/05	09/30/05	EPA 200.7	U
Selenium, dissolved	ND		0.0050	"	"	"	"	09/27/05	EPA 200.9	
Vanadium, dissolved	ND	0.0022	0.010	"	"	"	"	09/30/05	EPA 200.7	U
MW-2 (A509493-02) Water Sampled: 09/19/05 16:45 Received: 09/19/05 17:20										
Molybdenum, dissolved	ND	0.0014	0.020	mg/l	1	AI52009	09/20/05	09/30/05	EPA 200.7	U
Selenium, dissolved	ND		0.0050	"	"	"	"	09/27/05	EPA 200.9	
Vanadium, dissolved	ND	0.0022	0.010	"	"	"	"	09/30/05	EPA 200.7	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Metals by EPA 6000/7000 Series Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (A509493-01) Water Sampled: 09/19/05 15:55 Received: 09/19/05 17:20										
Chromium, hexavalent	ND	0.00011	0.0010	mg/l	1	AI52002	09/20/05	09/20/05	EPA 7199	U
MW-2 (A509493-02) Water Sampled: 09/19/05 16:45 Received: 09/19/05 17:20										
Chromium, hexavalent	ND	0.00011	0.0010	mg/l	1	AI52002	09/20/05	09/20/05	EPA 7199	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (A509493-01) Water Sampled: 09/19/05 15:55 Received: 09/19/05 17:20										
pH	**6.3**		1.0	pH Units	1	AI52018	09/20/05	09/20/05	EPA 150.1	
Oil & Grease (HEM-SG)	ND		5.0	mg/l	"	AI53015	09/30/05	10/03/05	EPA 1664	
MW-2 (A509493-02) Water Sampled: 09/19/05 16:45 Received: 09/19/05 17:20										
pH	**6.5**		1.0	pH Units	1	AI52018	09/20/05	09/20/05	EPA 150.1	
Oil & Grease (HEM-SG)	ND		5.0	mg/l	"	AI53015	09/30/05	10/03/05	EPA 1664	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

TPH by EPA/LUFT GC/GCMS Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (A509493-01) Water Sampled: 09/19/05 15:55 Received: 09/19/05 17:20										
TPH as Diesel	**3600**		50	ug/l	1	AI52810	09/28/05	09/28/05	8015DRO	
TPH as Gasoline	**1200**		250	"	5	AI52626	09/22/05	09/25/05	8260GRO	
Surrogate: Tetratetracontane		*104 %*	*20-152*			*AI52810*	*09/28/05*	*09/28/05*	*8015DRO*	
Surrogate: Toluene-d8		*110 %*	*86-141*			*AI52626*	*09/22/05*	*09/25/05*	*8260GRO*	
MW-2 (A509493-02) Water Sampled: 09/19/05 16:45 Received: 09/19/05 17:20										
TPH as Diesel	**120**		50	ug/l	1	AI52810	09/28/05	09/28/05	8015DRO	
TPH as Gasoline	**150**		50	"	"	AI52626	09/22/05	09/24/05	8260GRO	
Surrogate: Tetratetracontane		*154 %*	*20-152*			*AI52810*	*09/28/05*	*09/28/05*	*8015DRO*	*S-01*
Surrogate: Toluene-d8		*111 %*	*86-141*			*AI52626*	*09/22/05*	*09/24/05*	*8260GRO*	
QA (A509493-03) Water Sampled: 09/19/05 00:00 Received: 09/19/05 17:20										
TPH as Gasoline	ND		50	ug/l	1	AI52626	09/22/05	09/24/05	8260GRO	
Surrogate: Toluene-d8		*111 %*	*86-141*			*"*	*"*	*"*	*"*	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Volatile Organic Compounds by EPA Method 8260B
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (A509493-01) Water Sampled: 09/19/05 15:55 Received: 09/19/05 17:20										
Benzene	**0.35**		0.30	ug/l	1	AI52811	09/27/05	09/28/05	EPA 8260B	
Toluene	ND		0.30	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
Xylenes (total)	ND		0.50	"	"	"	"	"	"	
Surrogate: Bromofluorobenzene		*102 %*	*78-138*			"	"	"	"	
Surrogate: Dibromofluoromethane		*88.8 %*	*71-136*			"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*88-139*			"	"	"	"	
MW-2 (A509493-02) Water Sampled: 09/19/05 16:45 Received: 09/19/05 17:20										
Benzene	ND		0.30	ug/l	1	AI52803	09/22/05	09/24/05	EPA 8260B	
Toluene	ND		0.30	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
Xylenes (total)	ND		0.50	"	"	"	"	"	"	
Surrogate: Bromofluorobenzene		*103 %*	*78-138*			"	"	"	"	
Surrogate: Dibromofluoromethane		*96.0 %*	*71-136*			"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*88-139*			"	"	"	"	
QA (A509493-03) Water Sampled: 09/19/05 00:00 Received: 09/19/05 17:20										
Benzene	ND		0.30	ug/l	1	AI52803	09/22/05	09/24/05	EPA 8260B	
Toluene	ND		0.30	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	"	
Xylenes (total)	ND		0.50	"	"	"	"	"	"	
Surrogate: Bromofluorobenzene		*101 %*	*78-138*			"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*71-136*			"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*88-139*			"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Metals by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI51902 - EPA 200.2 Hot Plate											
Blank (AI51902-BLK1)					Prepared: 09/19/05 Analyzed: 09/29/05						
Lead	ND		0.0020	mg/l							
LCS (AI51902-BS1)					Prepared: 09/19/05 Analyzed: 09/29/05						
Lead	0.102		0.020	mg/l	0.100		102	85-115			
LCS Dup (AI51902-BSD1)					Prepared: 09/19/05 Analyzed: 09/29/05						
Lead	0.0947		0.020	mg/l	0.100		94.7	85-115	7.42	20	
Duplicate (AI51902-DUP1)		**Source: A509352-01**			Prepared: 09/19/05 Analyzed: 09/29/05						
Lead	ND		0.0020	mg/l		ND				20	
Matrix Spike (AI51902-MS1)		**Source: A509352-01**			Prepared: 09/19/05 Analyzed: 09/29/05						
Lead	0.0949		0.020	mg/l	0.100	ND	94.9	70-130			
Matrix Spike Dup (AI51902-MSD1)		**Source: A509352-01**			Prepared: 09/19/05 Analyzed: 09/29/05						
Lead	0.0984		0.020	mg/l	0.100	ND	98.4	70-130	3.62	20	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI52009 - EPA 200.2 Hot Plate											
Blank (AI52009-BLK1)					Prepared: 09/20/05 Analyzed: 10/03/05						
Molybdenum, dissolved	ND	0.0014	0.020	mg/l							U
Selenium, dissolved	ND		0.0050	"							
Vanadium, dissolved	ND	0.0022	0.010	"							U
LCS (AI52009-BS1)					Prepared: 09/20/05 Analyzed: 10/03/05						
Molybdenum, dissolved	0.103	0.0014	0.020	mg/l	0.100		103	85-115			
Selenium, dissolved	0.00995		0.0050	"	0.0100		99.5	85-115			
Vanadium, dissolved	0.0992	0.0022	0.010	"	0.100		99.2	85-115			
LCS Dup (AI52009-BSD1)					Prepared: 09/20/05 Analyzed: 10/03/05						
Molybdenum, dissolved	0.103	0.0014	0.020	mg/l	0.100		103	85-115	0.00	20	
Selenium, dissolved	0.00999		0.0050	"	0.0100		99.9	85-115	0.401	20	
Vanadium, dissolved	0.101	0.0022	0.010	"	0.100		101	85-115	1.80	20	
Duplicate (AI52009-DUP1)		**Source: A509493-01**			Prepared: 09/20/05 Analyzed: 09/30/05						
Molybdenum, dissolved	ND	0.0014	0.020	mg/l		ND				20	U
Selenium, dissolved	ND		0.0050	"		ND				20	
Vanadium, dissolved	ND	0.0022	0.010	"		ND				20	U
Matrix Spike (AI52009-MS1)		**Source: A509493-01**			Prepared: 09/20/05 Analyzed: 09/30/05						
Molybdenum, dissolved	0.0974	0.0014	0.020	mg/l	0.100	ND	97.4	70-130			
Selenium, dissolved	0.00789		0.0050	"	0.0100	ND	78.9	70-130			
Vanadium, dissolved	0.0975	0.0022	0.010	"	0.100	ND	97.5	70-130			
Matrix Spike Dup (AI52009-MSD1)		**Source: A509493-01**			Prepared: 09/20/05 Analyzed: 09/30/05						
Molybdenum, dissolved	0.102	0.0014	0.020	mg/l	0.100	ND	102	70-130	4.61	20	
Selenium, dissolved	0.00811		0.0050	"	0.0100	ND	81.1	70-130	2.75	20	
Vanadium, dissolved	0.101	0.0022	0.010	"	0.100	ND	101	70-130	3.53	20	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Metals by EPA 6000/7000 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI52002 - EPA 7199 Cr6 Water											
Blank (AI52002-BLK1)					Prepared & Analyzed: 09/20/05						
Chromium, hexavalent	ND	0.00011	0.0010	mg/l							U
LCS (AI52002-BS1)					Prepared & Analyzed: 09/20/05						
Chromium, hexavalent	0.00197	0.00011	0.0010	mg/l	0.00200		98.5	80-120			
LCS Dup (AI52002-BSD1)					Prepared & Analyzed: 09/20/05						
Chromium, hexavalent	0.00196	0.00011	0.0010	mg/l	0.00200		98.0	80-120	0.509	20	
Duplicate (AI52002-DUP1)		**Source: A509493-01**			Prepared & Analyzed: 09/20/05						
Chromium, hexavalent	ND	0.00011	0.0010	mg/l		ND				30	U
Matrix Spike (AI52002-MS1)		**Source: A509493-01**			Prepared & Analyzed: 09/20/05						
Chromium, hexavalent	0.00435	0.00011	0.0010	mg/l	0.00400	ND	109	70-130			
Matrix Spike Dup (AI52002-MSD1)		**Source: A509493-01**			Prepared & Analyzed: 09/20/05						
Chromium, hexavalent	0.00425	0.00011	0.0010	mg/l	0.00400	ND	106	70-130	2.33	20	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI52018 - General Preparation											
Duplicate (AI52018-DUP1)		**Source: A509498-01**			Prepared & Analyzed: 09/20/05						
pH	7.00		1.0	pH Units		7.0			0.00	20	
Batch AI53015 - General Preparation											
Blank (AI53015-BLK1)					Prepared: 09/30/05 Analyzed: 10/03/05						
Oil & Grease (HEM-SG)	ND		5.0	mg/l							
LCS (AI53015-BS1)					Prepared: 09/30/05 Analyzed: 10/03/05						
Oil & Grease (HEM-SG)	8.60		5.0	mg/l	10.0		86.0	66-114			
LCS Dup (AI53015-BSD1)					Prepared: 09/30/05 Analyzed: 10/03/05						
Oil & Grease (HEM-SG)	8.50		5.0	mg/l	10.0		85.0	66-114	1.17	24	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI52626 - EPA 5030 Water GCMS											
Blank (AI52626-BLK1)					Prepared: 09/22/05 Analyzed: 09/23/05						
TPH as Gasoline	ND		50	ug/l							
Surrogate: Toluene-d8	*27.5*			*"*	*25.0*		*110*	*86-141*			
LCS (AI52626-BS1)					Prepared: 09/22/05 Analyzed: 09/24/05						
TPH as Gasoline	241		50	ug/l	200		120	75-126			
Surrogate: Toluene-d8	*25.1*			*"*	*25.0*		*100*	*86-141*			
LCS Dup (AI52626-BSD1)					Prepared: 09/22/05 Analyzed: 09/24/05						
TPH as Gasoline	224		50	ug/l	200		112	75-126	7.31	20	
Surrogate: Toluene-d8	*24.5*			*"*	*25.0*		*98.0*	*86-141*			
Matrix Spike (AI52626-MS1)		**Source: A509452-02**			Prepared: 09/22/05 Analyzed: 09/24/05						
TPH as Gasoline	234		50	ug/l	200	19	108	32-166			
Surrogate: Toluene-d8	*24.6*			*"*	*25.0*		*98.4*	*86-141*			
Batch AI52810 - EPA 3510B Water											
Blank (AI52810-BLK1)					Prepared & Analyzed: 09/28/05						
TPH as Diesel	ND		50	ug/l							
Surrogate: Tetratetracontane	*113*			*"*	*125*		*90.4*	*20-152*			
LCS (AI52810-BS1)					Prepared & Analyzed: 09/28/05						
TPH as Diesel	1640		50	ug/l	2000		82.0	52-136			
Surrogate: Tetratetracontane	*129*			*"*	*125*		*103*	*20-152*			
LCS Dup (AI52810-BSD1)					Prepared & Analyzed: 09/28/05						
TPH as Diesel	1800		50	ug/l	2000		90.0	52-136	9.30	25	
Surrogate: Tetratetracontane	*145*			*"*	*125*		*116*	*20-152*			

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI52803 - EPA 5030 Water GCMS											
Blank (AI52803-BLK1)					Prepared: 09/22/05 Analyzed: 09/23/05						
Benzene	ND		0.30	ug/l							
Toluene	ND		0.30	"							
Ethylbenzene	ND		0.50	"							
Xylenes (total)	ND		0.50	"							
Surrogate: Bromofluorobenzene	*25.0*			*"*	*25.0*		*100*	*78-138*			
Surrogate: Dibromofluoromethane	*23.3*			*"*	*25.0*		*93.2*	*71-136*			
Surrogate: Toluene-d8	*27.5*			*"*	*25.0*		*110*	*88-139*			
LCS (AI52803-BS1)					Prepared: 09/22/05 Analyzed: 09/24/05						
Benzene	5.53		0.30	ug/l	5.00		111	68-129			
Toluene	5.51		0.30	"	5.00		110	76-137			
Ethylbenzene	5.16		0.50	"	5.00		103	78-136			
Xylenes (total)	15.2		0.50	"	15.0		101	76-134			
Surrogate: Bromofluorobenzene	*27.9*			*"*	*25.0*		*112*	*78-138*			
Surrogate: Dibromofluoromethane	*27.0*			*"*	*25.0*		*108*	*71-136*			
Surrogate: Toluene-d8	*27.7*			*"*	*25.0*		*111*	*88-139*			
LCS Dup (AI52803-BSD1)					Prepared: 09/22/05 Analyzed: 09/24/05						
Benzene	5.32		0.30	ug/l	5.00		106	68-129	3.87	25	
Toluene	5.43		0.30	"	5.00		109	76-137	1.46	25	
Ethylbenzene	4.94		0.50	"	5.00		98.8	78-136	4.36	25	
Xylenes (total)	14.8		0.50	"	15.0		98.7	76-134	2.67	25	
Surrogate: Bromofluorobenzene	*28.4*			*"*	*25.0*		*114*	*78-138*			
Surrogate: Dibromofluoromethane	*26.6*			*"*	*25.0*		*106*	*71-136*			
Surrogate: Toluene-d8	*28.1*			*"*	*25.0*		*112*	*88-139*			
Matrix Spike (AI52803-MS1)		**Source: A509452-02**			Prepared: 09/22/05 Analyzed: 09/24/05						
Benzene	5.64		0.30	ug/l	5.00	ND	113	39-142			
Toluene	5.94		0.30	"	5.00	ND	119	44-148			

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI52803 - EPA 5030 Water GCMS											
Matrix Spike (AI52803-MS1)		**Source: A509452-02**			Prepared: 09/22/05 Analyzed: 09/24/05						
Ethylbenzene	5.46		0.50	ug/l	5.00	ND	109	42-148			
Xylenes (total)	16.0		0.50	"	15.0	ND	107	43-145			
Surrogate: Bromofluorobenzene	*27.7*			*"*	*25.0*		*111*	*78-138*			
Surrogate: Dibromofluoromethane	*27.4*			*"*	*25.0*		*110*	*71-136*			
Surrogate: Toluene-d8	*27.8*			*"*	*25.0*		*111*	*88-139*			
Batch AI52811 - EPA 5030 Water GCMS											
Blank (AI52811-BLK1)					Prepared & Analyzed: 09/27/05						
Benzene	ND		0.30	ug/l							
Toluene	ND		0.30	"							
Ethylbenzene	ND		0.50	"							
Xylenes (total)	ND		0.50	"							
Surrogate: Bromofluorobenzene	*22.9*			*"*	*25.0*		*91.6*	*78-138*			
Surrogate: Dibromofluoromethane	*22.2*			*"*	*25.0*		*88.8*	*71-136*			
Surrogate: Toluene-d8	*27.0*			*"*	*25.0*		*108*	*88-139*			
LCS (AI52811-BS1)					Prepared & Analyzed: 09/27/05						
Benzene	5.17		0.30	ug/l	5.00		103	68-129			
Toluene	5.77		0.30	"	5.00		115	76-137			
Ethylbenzene	5.40		0.50	"	5.00		108	78-136			
Xylenes (total)	15.9		0.50	"	15.0		106	76-134			
Surrogate: Bromofluorobenzene	*25.8*			*"*	*25.0*		*103*	*78-138*			
Surrogate: Dibromofluoromethane	*23.9*			*"*	*25.0*		*95.6*	*71-136*			
Surrogate: Toluene-d8	*28.4*			*"*	*25.0*		*114*	*88-139*			
LCS Dup (AI52811-BSD1)					Prepared & Analyzed: 09/27/05						
Benzene	5.18		0.30	ug/l	5.00		104	68-129	0.193	25	
Toluene	5.85		0.30	"	5.00		117	76-137	1.38	25	
Ethylbenzene	5.32		0.50	"	5.00		106	78-136	1.49	25	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager: Margret Riggin	
ENSR International	Project: Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number: 06940-264-100	10/04/05 09:01

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AI52811 - EPA 5030 Water GCMS											
LCS Dup (AI52811-BSD1)					Prepared & Analyzed: 09/27/05						
Xylenes (total)	16.1		0.50	ug/l	15.0		107	76-134	1.25	25	
Surrogate: Bromofluorobenzene	*26.2*			*"*	*25.0*		*105*	*78-138*			
Surrogate: Dibromofluoromethane	*24.1*			*"*	*25.0*		*96.4*	*71-136*			
Surrogate: Toluene-d8	*28.8*			*"*	*25.0*		*115*	*88-139*			
Matrix Spike (AI52811-MS1)		**Source: A509621-01**			Prepared & Analyzed: 09/27/05						
Benzene	5.32		0.30	ug/l	5.00	ND	106	39-142			
Toluene	5.81		0.30	"	5.00	ND	116	44-148			
Ethylbenzene	5.43		0.50	"	5.00	ND	109	42-148			
Xylenes (total)	16.2		0.50	"	15.0	ND	108	43-145			
Surrogate: Bromofluorobenzene	*26.1*			*"*	*25.0*		*104*	*78-138*			
Surrogate: Dibromofluoromethane	*24.0*			*"*	*25.0*		*96.0*	*71-136*			
Surrogate: Toluene-d8	*28.0*			*"*	*25.0*		*112*	*88-139*			

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Sacramento CA, 95827-2508	Project Manager:	Margret Riggin	
ENSR International	Project:	Unocal #0813, Ukiah	Reported:
10411 Old Placerville Rd., Suite 210	Project Number:	06940-264-100	10/04/05 09:01

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
S-01	The surrogate recovery for this sample is outside of established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks, Project Manager

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

BSK Submission #: 2005091545

BSK Sample ID #: 636960

Report Issue Date: 10/05/2005

Project ID: A509493 Project Desc:

Submission Comments:

Sample Type: Liquid
Sample Description: A509493-01 MW-1
Sample Comments: A509493-01

Date Sampled: 09/19/2005
Time Sampled: 1555
Date Received: 09/21/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**ND**	mg/L	0.005	1	0.005	10/04/05	10/04/05
Bromide (Br)	EPA 300.1	**0.083**	mg/L	0.005	1	0.005	09/28/05	09/28/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code: *636960-0.0830*

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

BSK Submission #: 2005091545

BSK Sample ID #: 636961

Report Issue Date: 10/05/2005

Project ID: A509493

Project Desc:

Submission Comments:

Sample Type: Liquid

Sample Description: A509493-02 MW-2

Sample Comments: A509493-02

Date Sampled: 09/19/2005
Time Sampled: 1645
Date Received: 09/21/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**ND**	mg/L	0.005	1	0.005	10/04/05	10/04/05
Bromide (Br)	EPA 300.1	**0.079**	mg/L	0.005	1	0.005	09/28/05	09/28/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code: *636961-0.0790*

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

CHAIN OF CUSTODY

Lab: Alpha Analytical

TAT: Standard

Report results to:

Name	Margret Riggin
Company	ENSR
Mailing Address	10411 Old Placerville Road, Suite 210
City, State, Zip	Sacramento, CA 95827-2508
Telephone No.	916-362-7100
Fax No.	916-362-8100
E-Mail	mriggin@ensr.com

Project Information

Site Address:	122 Leslie St., Ukiah, CA
ENSR No.	06940-264-100
Unocal No.	813
Global ID No.	T0604593441

Special instructions and/or specific regulatory requirements:

A509493

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Conts.	TPHg (8015)	BTEX (8021B)	TRPH (1664)	Total Lead (6010)	TPHd (8015)	Bromate (300) / Bromide (300.0)	Chromium VI (7199)	Molybdenum / Vanadium (200.7)	Selenium (200.9)	pH (150.1)		Sample Condition/Comments	Preservative
					Analyses Requested												
MW-1	9/19	1555	GW	10	X	X	X	X	X	X	X	X	X	X		1	HCl/HNO3
MW-2	9/19	1645	GW	10	X	X	X	X	X	X	X	X	X	X		2	HCl/HNO3
QA			Liquid	2	X	X										3	Ice

Collected by: Josh Rick *Date/Time* 9/19/05 1720 *Collector's Signature:* *Date/Time* 9/19/05 1720

Relinquished by: Josh Rick *Date/Time* 9/19/05 1720 *Received by:* *Date/Time* 9/19/05 17:20

Relinquished by: *Date/Time* *Received by:* *Date/Time*

Method of Shipment: *Sample Condition on Rcpt:*

*

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

05 December 2005

ENSR International
Attn: Margret Riggin
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
RE: Unocal #0813, Ukiah
Work Order: A511466

Enclosed are the results of analyses for samples received by the laboratory on 11/16/05 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A511466-01	Water	11/16/05 15:40	11/16/05 17:35
MW-2	A511466-02	Water	11/16/05 14:00	11/16/05 17:35
MW-3	A511466-03	Water	11/16/05 13:35	11/16/05 17:35
MW-4	A511466-04	Water	11/16/05 13:05	11/16/05 17:35
MW-5	A511466-05	Water	11/16/05 15:00	11/16/05 17:35
MW-6	A511466-06	Water	11/16/05 11:35	11/16/05 17:35
MW-7	A511466-07	Water	11/16/05 12:35	11/16/05 17:35
MW-8	A511466-08	Water	11/16/05 12:00	11/16/05 17:35
MW-9	A511466-09	Water	11/16/05 10:55	11/16/05 17:35
QA	A511466-10	Water	11/16/05 00:00	11/16/05 17:35

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-1 (A511466-01)			**Sample Type: Water**			**Sampled: 11/16/05 15:40**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/28/05	1	**0.012 mg/l**		**0.0020**	
Metals (Dissolved) by EPA 200 Series Methods									
Molybdenum, dissolved	EPA 200.7	AK52111	11/21/05	11/29/05	1	ND mg/l		0.020	
Selenium, dissolved	EPA 200.9	"	"	12/01/05	"	ND "		0.0050	
Vanadium, dissolved	EPA 200.7	"	"	11/29/05	"	ND "		0.010	
Metals by EPA 6000/7000 Series Methods									
Chromium, hexavalent	EPA 7199	AK51615	11/17/05	11/17/05	1	ND mg/l		0.0010	
Conventional Chemistry Parameters by APHA/EPA Methods									
pH	EPA 150.1	AK51709	11/17/05	11/17/05	1	**6.8 pH Units**		**1.0**	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/01/05	1	**10000 ug/l**		**50**	
TPH as Gasoline	8260GRO	AK53005	11/29/05	11/30/05	2	**360 "**		**100**	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/01/05*		*41.6 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK53005*	*11/29/05*	*11/30/05*		*102 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/28/05	1	**0.41 ug/l**		**0.30**	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*102 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*99.2 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*101 %*	*88-139*		
MW-2 (A511466-02)			**Sample Type: Water**			**Sampled: 11/16/05 14:00**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/29/05	10	**0.17 mg/l**		**0.020**	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-2 (A511466-02)			**Sample Type: Water**			**Sampled: 11/16/05 14:00**			
Metals (Dissolved) by EPA 200 Series Methods									
Molybdenum, dissolved	EPA 200.7	AK52111	11/21/05	11/29/05	1	ND mg/l		0.020	
Selenium, dissolved	EPA 200.9	"	"	12/01/05	"	ND "		0.0050	
Vanadium, dissolved	EPA 200.7	"	"	11/29/05	"	ND "		0.010	
Metals by EPA 6000/7000 Series Methods									
Chromium, hexavalent	EPA 7199	AK51615	11/17/05	11/17/05	1	ND mg/l		0.0010	
Conventional Chemistry Parameters by APHA/EPA Methods									
pH	EPA 150.1	AK51709	11/17/05	11/17/05	1	**7.2 pH Units**		**1.0**	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/01/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/28/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/01/05*		*72.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/28/05*		*104 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/28/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*98.0 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*105 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*104 %*	*88-139*		
MW-3 (A511466-03)			**Sample Type: Water**			**Sampled: 11/16/05 13:35**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/29/05	1	**0.0021 mg/l**		**0.0020**	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-3 (A511466-03)			**Sample Type: Water**			**Sampled: 11/16/05 13:35**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/01/05	1	**82 ug/l**		**50**	
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/28/05	"	**130 "**		**50**	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/01/05*		*69.1 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/28/05*		*104 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/28/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*103 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*110 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*104 %*	*88-139*		
MW-4 (A511466-04)			**Sample Type: Water**			**Sampled: 11/16/05 13:05**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/29/05	1	**0.018 mg/l**		**0.0020**	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/01/05	1	**120 ug/l**		**50**	D-13
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/29/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/01/05*		*62.3 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/29/05*		*105 %*	*79-141*		

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-4 (A511466-04)			**Sample Type: Water**			**Sampled: 11/16/05 13:05**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/29/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*100 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*105 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*105 %*	*88-139*		
MW-5 (A511466-05)			**Sample Type: Water**			**Sampled: 11/16/05 15:00**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/28/05	1	ND mg/l		0.0020	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/01/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/29/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/01/05*		*52.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/29/05*		*106 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/29/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*98.8 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*106 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*106 %*	*88-139*		
MW-6 (A511466-06)			**Sample Type: Water**			**Sampled: 11/16/05 11:35**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/29/05	1	**0.0074 mg/l**		**0.0020**	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-6 (A511466-06)			**Sample Type: Water**			**Sampled: 11/16/05 11:35**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/01/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/29/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/01/05*		*49.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/29/05*		*108 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/29/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*99.6 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*109 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*108 %*	*88-139*		
MW-7 (A511466-07)			**Sample Type: Water**			**Sampled: 11/16/05 12:35**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/28/05	1	ND mg/l		0.0020	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/02/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/29/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/02/05*		*49.5 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/29/05*		*107 %*	*79-141*		

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-7 (A511466-07)			**Sample Type: Water**			**Sampled: 11/16/05 12:35**			
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/29/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*98.0 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*111 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*107 %*	*88-139*		
MW-8 (A511466-08)			**Sample Type: Water**			**Sampled: 11/16/05 12:00**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/29/05	1	**0.011 mg/l**		**0.0020**	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/02/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/29/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/02/05*		*49.8 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/29/05*		*103 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/29/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*94.4 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*108 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*103 %*	*88-139*		
MW-9 (A511466-09)			**Sample Type: Water**			**Sampled: 11/16/05 10:55**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AK52112	11/21/05	11/29/05	1	**0.011 mg/l**		**0.0020**	

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-9 (A511466-09)			**Sample Type: Water**			**Sampled: 11/16/05 10:55**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AK53020	11/29/05	12/02/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/29/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AK53020*	*11/29/05*	*12/02/05*		*44.4 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AK52825*	*11/28/05*	*11/29/05*		*105 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/29/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*94.8 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*114 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*105 %*	*88-139*		
QA (A511466-10)			**Sample Type: Water**			**Sampled: 11/16/05 00:00**			
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Gasoline	8260GRO	AK52825	11/28/05	11/28/05	1	ND ug/l		50	
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*105 %*	*79-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AK52916	11/28/05	11/28/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*96.0 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*110 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*105 %*	*88-139*		

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK52112 - EPA 200.2 Hot Plate										
Blank (AK52112-BLK1)				Prepared: 11/21/05 Analyzed: 11/28/05						
Lead	ND	0.0020	mg/l							
LCS (AK52112-BS1)				Prepared: 11/21/05 Analyzed: 11/28/05						
Lead	0.105	0.020	mg/l	0.100		105	85-115			
LCS Dup (AK52112-BSD1)				Prepared: 11/21/05 Analyzed: 11/28/05						
Lead	0.104	0.020	mg/l	0.100		104	85-115	0.957	20	
Duplicate (AK52112-DUP1)	**Source: A511466-01**			Prepared: 11/21/05 Analyzed: 11/28/05						
Lead	0.0124	0.0020	mg/l		0.012			3.28	20	
Matrix Spike (AK52112-MS1)	**Source: A511466-01**			Prepared: 11/21/05 Analyzed: 11/28/05						
Lead	0.109	0.020	mg/l	0.100	ND	97.0	70-130			
Matrix Spike Dup (AK52112-MSD1)	**Source: A511466-01**			Prepared: 11/21/05 Analyzed: 11/28/05						
Lead	0.120	0.020	mg/l	0.100	ND	108	70-130	9.61	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK52111 - EPA 200.2 Hot Plate										
Blank (AK52111-BLK1)				Prepared: 11/21/05 Analyzed: 11/29/05						
Molybdenum, dissolved	ND	0.020	mg/l							
Selenium, dissolved	ND	0.0050	"							
Vanadium, dissolved	ND	0.010	"							
LCS (AK52111-BS1)				Prepared: 11/21/05 Analyzed: 11/29/05						
Molybdenum, dissolved	0.101	0.020	mg/l	0.100		101	85-115			
Selenium, dissolved	0.00979	0.0050	"	0.0100		97.9	85-115			
Vanadium, dissolved	0.0982	0.010	"	0.100		98.2	85-115			
LCS Dup (AK52111-BSD1)				Prepared: 11/21/05 Analyzed: 11/29/05						
Molybdenum, dissolved	0.101	0.020	mg/l	0.100		101	85-115	0.00	20	
Selenium, dissolved	0.00962	0.0050	"	0.0100		96.2	85-115	1.75	20	
Vanadium, dissolved	0.0984	0.010	"	0.100		98.4	85-115	0.203	20	
Duplicate (AK52111-DUP1)	**Source: A511466-01**			Prepared: 11/21/05 Analyzed: 11/29/05						
Molybdenum, dissolved	ND	0.020	mg/l		ND				20	
Selenium, dissolved	ND	0.0050	"		ND				20	
Vanadium, dissolved	ND	0.010	"		ND				20	
Matrix Spike (AK52111-MS1)	**Source: A511466-01**			Prepared: 11/21/05 Analyzed: 11/29/05						
Molybdenum, dissolved	0.100	0.020	mg/l	0.100	ND	100	70-130			
Selenium, dissolved	0.00649	0.0050	"	0.0100	ND	64.9	70-130			QM-01
Vanadium, dissolved	0.0944	0.010	"	0.100	ND	94.4	70-130			
Matrix Spike Dup (AK52111-MSD1)	**Source: A511466-01**			Prepared: 11/21/05 Analyzed: 11/29/05						
Molybdenum, dissolved	0.0985	0.020	mg/l	0.100	ND	98.5	70-130	1.51	20	
Selenium, dissolved	0.00648	0.0050	"	0.0100	ND	64.8	70-130	0.154	20	QM-01
Vanadium, dissolved	0.0945	0.010	"	0.100	ND	94.5	70-130	0.106	20	

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK51615 - General Preparation										
Blank (AK51615-BLK1)				Prepared & Analyzed: 11/17/05						
Chromium, hexavalent	ND	0.0010	mg/l							
LCS (AK51615-BS1)				Prepared & Analyzed: 11/17/05						
Chromium, hexavalent	0.00416	0.0010	mg/l	0.00400		104	80-120			
LCS Dup (AK51615-BSD1)				Prepared & Analyzed: 11/17/05						
Chromium, hexavalent	0.00410	0.0010	mg/l	0.00400		102	80-120	1.45	20	
Duplicate (AK51615-DUP1)		**Source: A511466-01**		Prepared & Analyzed: 11/17/05						
Chromium, hexavalent	ND	0.0010	mg/l		ND				30	
Matrix Spike (AK51615-MS1)		**Source: A511466-01**		Prepared & Analyzed: 11/17/05						
Chromium, hexavalent	0.00417	0.0010	mg/l	0.00400	ND	104	70-130			
Matrix Spike Dup (AK51615-MSD1)		**Source: A511466-01**		Prepared & Analyzed: 11/17/05						
Chromium, hexavalent	0.00416	0.0010	mg/l	0.00400	ND	104	70-130	0.240	20	

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK51709 - General Preparation										
Duplicate (AK51709-DUP1)	**Source: A511467-01**			Prepared & Analyzed: 11/17/05						
pH	7.83	1.0	pH Units		7.9			0.890	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK52825 - VOAs in Water GCMS										
Blank (AK52825-BLK1)				Prepared & Analyzed: 11/28/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*28.6*		"	*25.0*		*114*	*79-141*			
LCS (AK52825-BS1)				Prepared & Analyzed: 11/28/05						
TPH as Gasoline	161	50	ug/l	200		80.5	75-126			
Surrogate: Toluene-d8	*29.0*		"	*25.0*		*116*	*79-141*			
LCS Dup (AK52825-BSD1)				Prepared & Analyzed: 11/28/05						
TPH as Gasoline	165	50	ug/l	200		82.5	75-126	2.45	20	
Surrogate: Toluene-d8	*28.3*		"	*25.0*		*113*	*79-141*			
Matrix Spike (AK52825-MS1)	**Source: A511466-02**			Prepared & Analyzed: 11/28/05						
TPH as Gasoline	156	50	ug/l	200	ND	70.0	32-166			
Surrogate: Toluene-d8	*28.8*		"	*25.0*		*115*	*79-141*			
Batch AK53005 - VOAs in Water GCMS										
Blank (AK53005-BLK1)				Prepared & Analyzed: 11/29/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*26.8*		"	*25.0*		*107*	*79-141*			
LCS (AK53005-BS1)				Prepared & Analyzed: 11/29/05						
TPH as Gasoline	187	50	ug/l	200		93.5	75-126			
Surrogate: Toluene-d8	*29.1*		"	*25.0*		*116*	*79-141*			
LCS Dup (AK53005-BSD1)				Prepared & Analyzed: 11/29/05						
TPH as Gasoline	173	50	ug/l	200		86.5	75-126	7.78	20	
Surrogate: Toluene-d8	*29.1*		"	*25.0*		*116*	*79-141*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK53005 - VOAs in Water GCMS										
Matrix Spike (AK53005-MS1)	**Source: A511502-04**			Prepared & Analyzed: 11/29/05						
TPH as Gasoline	174	50	ug/l	200	ND	78.5	32-166			
Surrogate: Toluene-d8	*29.2*		"	*25.0*		*117*	*79-141*			
Batch AK53020 - EPA 3510B Water										
Blank (AK53020-BLK1)				Prepared: 11/29/05 Analyzed: 12/01/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: Tetratetracontane	*52.4*		"	*162*		*32.3*	*20-152*			
LCS (AK53020-BS1)				Prepared: 11/29/05 Analyzed: 12/01/05						
TPH as Diesel	1970	50	ug/l	2000		98.5	52-136			
Surrogate: Tetratetracontane	*93.0*		"	*162*		*57.4*	*20-152*			
LCS Dup (AK53020-BSD1)				Prepared: 11/29/05 Analyzed: 12/01/05						
TPH as Diesel	1730	50	ug/l	2000		86.5	52-136	13.0	25	
Surrogate: Tetratetracontane	*76.4*		"	*162*		*47.2*	*20-152*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK52916 - VOAs in Water GCMS										
Blank (AK52916-BLK1)				Prepared & Analyzed: 11/28/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Bromofluorobenzene	*26.6*		*"*	*25.0*		*106*	*78-138*			
Surrogate: Dibromofluoromethane	*26.2*		*"*	*25.0*		*105*	*71-136*			
Surrogate: Toluene-d8	*28.6*		*"*	*25.0*		*114*	*88-139*			
LCS (AK52916-BS1)				Prepared & Analyzed: 11/28/05						
Benzene	5.44	0.30	ug/l	5.00		109	68-129			
Toluene	5.38	0.30	"	5.00		108	76-137			
Ethylbenzene	5.17	0.50	"	5.00		103	78-136			
Xylenes (total)	15.9	0.50	"	15.0		106	76-134			
Surrogate: Bromofluorobenzene	*25.7*		*"*	*25.0*		*103*	*78-138*			
Surrogate: Dibromofluoromethane	*24.8*		*"*	*25.0*		*99.2*	*71-136*			
Surrogate: Toluene-d8	*26.3*		*"*	*25.0*		*105*	*88-139*			
LCS Dup (AK52916-BSD1)				Prepared & Analyzed: 11/28/05						
Benzene	5.22	0.30	ug/l	5.00		104	68-129	4.13	25	
Toluene	5.23	0.30	"	5.00		105	76-137	2.83	25	
Ethylbenzene	5.12	0.50	"	5.00		102	78-136	0.972	25	
Xylenes (total)	15.4	0.50	"	15.0		103	76-134	3.19	25	
Surrogate: Bromofluorobenzene	*26.6*		*"*	*25.0*		*106*	*78-138*			
Surrogate: Dibromofluoromethane	*25.0*		*"*	*25.0*		*100*	*71-136*			
Surrogate: Toluene-d8	*26.6*		*"*	*25.0*		*106*	*88-139*			

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK52916 - VOAs in Water GCMS										
Matrix Spike (AK52916-MS1)	**Source: A511466-01**			Prepared & Analyzed: 11/28/05						
Benzene	5.84	0.30	ug/l	5.00	0.41	109	39-142			
Toluene	5.24	0.30	"	5.00	ND	105	44-148			
Ethylbenzene	5.59	0.50	"	5.00	ND	112	42-148			
Xylenes (total)	16.1	0.50	"	15.0	ND	107	43-145			
Surrogate: Bromofluorobenzene	*26.7*		*"*	*25.0*		*107*	*78-138*			
Surrogate: Dibromofluoromethane	*25.1*		*"*	*25.0*		*100*	*71-136*			
Surrogate: Toluene-d8	*25.3*		*"*	*25.0*		*101*	*88-139*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

12/5/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Margret Riggin

Report Date: 12/05/05 13:27
Project No: 06940-264-100
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A511466	11/16/2005 17:35	ENSR	

Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
D-13	The sample chromatogram contains resolved peaks within the diesel range that do not resemble diesel.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

CHAIN OF CUSTODY

Per Paul Run TPHD not 1664 Due to lack of Proper containers 11/16/05 ss.

Lab: Alpha Analytical

TAT: Standard

Report results to:

Name	Margret Riggin
Company	ENSR
Mailing Address	10411 Old Placerville Road, Suite 210
City, State, Zip	Sacramento, CA 95827-2508
Telephone No.	916-362-7100
Fax No.	916-362-8100
E-Mail	mriggin@ensr.com

Project Information

Site Address:	122 Leslie Street, Ukiah
ENSR No.	06940-264-100
Unocal No.	813
Global ID No.	T0604593441

Special instructions and/or specific regulatory requirements:

A5114666

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Conts.	TPHg (8015)	BTEX (8021B)	TRPH (1664)	Total Lead (6010)	TPHd (8015)	Bromate (300) / Bromide (300.0)	Chromium VI (7199)	Molybdenum / Vanadium (200.7)	Selenium (200.9)	pH (150.1)		Sample Condition/Comments	Preservative
					Analyses Requested												
MW-1	11/16/05	1540	GW	10	X	X	X	X	X	X	X	X	X	X		1	HCl/HNO3
MW-2	11/16/05	1400	GW	10	X	X	X	X	X	X	X	X	X	X		2	HCl/HNO3
MW-3	11/16/05	1335	GW	6	X	X	X	X	X							3	HCl/HNO3
MW-4	11/16/05	1305	GW	6	X	X	X	X	X							4	HCl/HNO3
MW-5	11/16/05	1500	GW	6	X	X	X	X	X							5	HCl/HNO3
MW-6	11/16/05	1135	GW	6	X	X	X	X	X							6	HCl/HNO3
MW-7	11/16/05	1235	GW	6	X	X	X	X	X							7	HCl/HNO3
MW-8	11/16/05	1200	GW	6	X	X	X	X	X							8	HCl/HNO3
MW-9	11/16/05	1055	GW	6	X	X	X	X	X							9	HCl/HNO3
QA	11/16/05	—	Liquid	2	X	X										10	Ice

Collected by: [illegible] ***Date/Time*** 11/16/05, 1720 ***Collector's Signature:*** ***Date/Time*** 11/16/05, 1720

Relinquished by: ***Date/Time*** 11/16/05, 1735 ***Received by:*** Don Speaks ***Date/Time*** 11/16/05 1735

Relinquished by: ***Date/Time*** ***Received by:*** ***Date/Time***

Method of Shipment: ***Sample Condition on Rcpt:***

*

BSK ANALYTICAL LABORATORIES

BSK Submission Number: 2005111425

12/02/2005

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

Dear Sheri L. Speaks,

Thank you for selecting BSK Analytical Laboratories for your analytical testing needs. We have prepared this report in response to your request for analytical services. Please find enclosed the following sections for your complete laboratory report, each uniquely paginated:

CASE NARRATIVE: An overview of the work performed.
CERTIFICATE OF ANALYSIS: Analytical results.
REPORT OF SAMPLE INTEGRITY
CHAIN OF CUSTODY FORM

Certification: I certify that this data package is in compliance with NELAC Standards for applicable analyses under NELAP Certificate #04227CA, and is in compliance with ELAP Standards for applicable certified analyses under ELAP Certificate #1180, except for the conditions listed.

If additional clarification of any information is required, please contact your Client Services Representative, Matthew Carter, at (800) 877-8310 or (559) 497-2888.

BSK ANALYTICAL LABORATORIES

Matthew Carter
Client Services Representative

Case Narrative

BSK Submission Number: 2005111425

SAMPLE AND RECEIPT INFORMATION

The sample(s) was received, prepared, and analyzed within the method specified holding times unless otherwise noted on the Certificate of Analysis. Samples, when shipped, arrived within acceptable temperature requirements of 0° to 6° Celsius unless otherwise noted on the Report of Sample Integrity. Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.

QUALITY CONTROL

All analytical quality controls are within established method criteria except when noted in the Quality Control section or on the Certificate of Analysis. All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed. QC samples may include analytes not requested in this submission.

RUN	ORDER	TEST	ANALYTE	COMMENT
103726	664352	EPA 300.1	Bromate (BrO3) with Ag/Ba Clean Up	MS recovery was affected by the matrix.

SAMPLE RESULT INFORMATION

Samples are analyzed as received (wet weight basis) unless noted here. The results relate only to the items tested. Any exceptions to be considered when evaluating these results are also listed here, if applicable. Results contained in this package shall not be reproduced, except in full, without written approval of BSK Analytical Laboratories.

ORDER	TEST	ANALYTE	COMMENT

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

ACCREDITED IN ACCORDANCE WITH nelac

Report Issue Date: 12/02/2005

BSK Submission #: 2005111425
BSK Sample ID #: 660765

Project ID: A511466
Project Desc:
Submission Comments: Geo I.D. T0604593441
Sample Type: Liquid
Sample Description: A511466-01 MW-1
Sample Comments:

Date Sampled: 11/16/2005
Time Sampled: 1540
Date Received: 11/18/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**ND**	mg/L	0.005	1	0.005	11/21/05	11/21/05
Bromide (Br)	EPA 300.1	**0.072**	mg/L	0.005	1	0.005	11/22/05	11/22/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

BSK Submission #: 2005111425
BSK Sample ID #: 660766

Project ID: A511466 Project Desc:
Submission Comments: Geo I.D. T0604593441
Sample Type: Liquid
Sample Description: A511466-02 MW-2
Sample Comments:

Report Issue Date: 12/02/2005

Date Sampled: 11/16/2005
Time Sampled: 1400
Date Received: 11/18/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**ND**	mg/L	0.005	1	0.005	11/30/05	11/30/05
Bromide (Br)	EPA 300.1	**0.069**	mg/L	0.005	1	0.005	11/22/05	11/22/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

BSK Submission Number: 2005111425

12/02/2005

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

Dear Sheri L. Speaks,

Thank you for selecting BSK Analytical Laboratories for your analytical testing needs. We have prepared this report in response to your request for analytical services. Please find enclosed the following sections for your complete laboratory report, each uniquely paginated:

CASE NARRATIVE: An overview of the work performed.
CERTIFICATE OF ANALYSIS: Analytical results.
REPORT OF SAMPLE INTEGRITY
CHAIN OF CUSTODY FORM

Certification: I certify that this data package is in compliance with NELAC Standards for applicable analyses under NELAP Certificate #04227CA, and is in compliance with ELAP Standards for applicable certified analyses under ELAP Certificate #1180, except for the conditions listed.

If additional clarification of any information is required, please contact your Client Services Representative, Matthew Carter, at (800) 877-8310 or (559) 497-2888.

BSK ANALYTICAL LABORATORIES

Matthew Carter
Client Services Representative

Case Narrative

BSK Submission Number: 2005111425

SAMPLE AND RECEIPT INFORMATION

The sample(s) was received, prepared, and analyzed within the method specified holding times unless otherwise noted on the Certificate of Analysis. Samples, when shipped, arrived within acceptable temperature requirements of 0° to 6° Celsius unless otherwise noted on the Report of Sample Integrity. Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.

QUALITY CONTROL

All analytical quality controls are within established method criteria except when noted in the Quality Control section or on the Certificate of Analysis. All positive results for EPA Methods 504.1, 502.2, and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed. QC samples may include analytes not requested in this submission.

RUN	ORDER	TEST	ANALYTE	COMMENT
103726	664352	EPA 300.1	Bromate (BrO3) with Ag/Ba Clean Up	MS recovery was affected by the matrix.

SAMPLE RESULT INFORMATION

Samples are analyzed as received (wet weight basis) unless noted here. The results relate only to the items tested. Any exceptions to be considered when evaluating these results are also listed here, if applicable. Results contained in this package shall not be reproduced, except in full, without written approval of BSK Analytical Laboratories.

ORDER	TEST	ANALYTE	COMMENT

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

ACCREDITED IN ACCORDANCE WITH nelac

Report Issue Date: 12/02/2005

BSK Submission #: 2005111425
BSK Sample ID #: 660765

Project ID: A511466
Project Desc:
Submission Comments: Geo I.D. T0604593441
Sample Type: Liquid
Sample Description: A511466-01 MW-1
Sample Comments:

Date Sampled: 11/16/2005
Time Sampled: 1540
Date Received: 11/18/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**ND**	mg/L	0.005	1	0.005	11/21/05	11/21/05
Bromide (Br)	EPA 300.1	**0.072**	mg/L	0.005	1	0.005	11/22/05	11/22/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

BSK Submission #: 2005111425
BSK Sample ID #: 660766

Project ID: A511466 Project Desc:
Submission Comments: Geo I.D. T0604593441
Sample Type: Liquid
Sample Description: A511466-02 MW-2
Sample Comments:

Report Issue Date: 12/02/2005

Date Sampled: 11/16/2005
Time Sampled: 1400
Date Received: 11/18/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**ND**	mg/L	0.005	1	0.005	11/30/05	11/30/05
Bromide (Br)	EPA 300.1	**0.069**	mg/L	0.005	1	0.005	11/22/05	11/22/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code:

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

02 November 2005

ENSR International
Attn: Paul Wadding
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
RE: Unocal #0813, Ukiah
Work Order: A510440

Enclosed are the results of analyses for samples received by the laboratory on 10/18/05 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sheri L. Speaks
Project Manager

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A510440-01	Water	10/18/05 14:00	10/18/05 16:10
MW-2	A510440-02	Water	10/18/05 12:45	10/18/05 16:10
QA	A510440-03	Water	10/18/05 12:45	10/18/05 16:10

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-1 (A510440-01)			**Sample Type: Water**			**Sampled: 10/18/05 14:00**			
Metals by EPA 200 Series Methods									
Lead	EPA 200.9	AJ52513	10/25/05	10/27/05	1	ND mg/l		0.0020	
Metals (Dissolved) by EPA 200 Series Methods									
Molybdenum, dissolved	EPA 200.7	AJ52401	10/24/05	10/28/05	1	ND mg/l		0.020	
Selenium, dissolved	EPA 200.9	"	"	10/26/05	"	ND "		0.0050	
Vanadium, dissolved	EPA 200.7	"	"	10/28/05	"	ND "		0.010	
Metals by EPA 6000/7000 Series Methods									
Chromium, hexavalent	EPA 7199	AJ51907	10/19/05	10/19/05	1	ND mg/l		0.0010	
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 1664	AJ52610	10/26/05	10/28/05	1	ND mg/l		5.0	
pH	EPA 150.1	AJ51922	10/19/05	10/19/05	"	**7.1 pH Units**		**1.0**	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AJ52816	10/28/05	11/01/05	0.9302	**8000 ug/l**		**47**	
TPH as Gasoline	8260GRO	AJ52604	10/25/05	10/26/05	5	**2100 "**		**250**	
Surrogate: Tetratetracontane	*8015DRO*	*AJ52816*	*10/28/05*	*11/01/05*		*37.0 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AJ52604*	*10/25/05*	*10/26/05*		*106 %*	*86-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AJ52613	"	10/26/05	1	**0.45 ug/l**		**0.30**	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*118 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*79.6 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*107 %*	*88-139*		
MW-2 (A510440-02)			**Sample Type: Water**			**Sampled: 10/18/05 12:45**			
Metals by EPA 200 Series Methods									

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
MW-2 (A510440-02)			**Sample Type: Water**			**Sampled: 10/18/05 12:45**			
Metals by EPA 200 Series Methods (cont'd)									
Lead	EPA 200.9	AJ52513	10/25/05	10/27/05	1	ND mg/l		0.0020	
Metals (Dissolved) by EPA 200 Series Methods									
Molybdenum, dissolved	EPA 200.7	AJ52401	10/24/05	10/28/05	1	ND mg/l		0.020	
Selenium, dissolved	EPA 200.9	"	"	10/26/05	"	ND "		0.0050	
Vanadium, dissolved	EPA 200.7	"	"	10/28/05	"	ND "		0.010	
Metals by EPA 6000/7000 Series Methods									
Chromium, hexavalent	EPA 7199	AJ51907	10/19/05	10/19/05	1	ND mg/l		0.0010	
Conventional Chemistry Parameters by APHA/EPA Methods									
Oil & Grease (HEM-SG)	EPA 1664	AJ52610	10/26/05	10/28/05	1	ND mg/l		5.0	
pH	EPA 150.1	AJ51922	10/19/05	10/19/05	"	**7.3 pH Units**		**1.0**	
TPH by EPA/LUFT GC/GCMS Methods									
TPH as Diesel	8015DRO	AJ52816	10/28/05	11/01/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AJ52604	10/25/05	10/26/05	"	ND "		50	
Surrogate: Tetratetracontane	*8015DRO*	*AJ52816*	*10/28/05*	*11/01/05*		*44.1 %*	*20-152*		
Surrogate: Toluene-d8	*8260GRO*	*AJ52604*	*10/25/05*	*10/26/05*		*105 %*	*86-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AJ52613	"	10/26/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	*"*	*"*	*"*	*"*		*120 %*	*78-138*		
Surrogate: Dibromofluoromethane	*"*	*"*	*"*	*"*		*101 %*	*71-136*		
Surrogate: Toluene-d8	*"*	*"*	*"*	*"*		*105 %*	*88-139*		
QA (A510440-03)			**Sample Type: Water**			**Sampled: 10/18/05 12:45**			
TPH by EPA/LUFT GC/GCMS Methods									

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
QA (A510440-03)			**Sample Type: Water**			**Sampled: 10/18/05 12:45**			
TPH by EPA/LUFT GC/GCMS Methods (cont'd)									
TPH as Gasoline	8260GRO	AJ52604	10/25/05	10/26/05	1	ND ug/l		50	
Surrogate: Toluene-d8	"	"	"	"		*104 %*	*86-141*		
Volatile Organic Compounds by EPA Method 8260B									
Benzene	EPA 8260B	AJ52613	"	10/26/05	1	ND ug/l		0.30	
Toluene	"	"	"	"	"	ND "		0.30	
Ethylbenzene	"	"	"	"	"	ND "		0.50	
Xylenes (total)	"	"	"	"	"	ND "		0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		*118 %*	*78-138*		
Surrogate: Dibromofluoromethane	"	"	"	"		*101 %*	*71-136*		
Surrogate: Toluene-d8	"	"	"	"		*104 %*	*88-139*		

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ52513 - EPA 200.2 Hot Plate										
Blank (AJ52513-BLK1)				Prepared: 10/25/05 Analyzed: 10/27/05						
Lead	ND	0.0020	mg/l							
LCS (AJ52513-BS1)				Prepared: 10/25/05 Analyzed: 10/27/05						
Lead	0.102	0.020	mg/l	0.100		102	85-115			
LCS Dup (AJ52513-BSD1)				Prepared: 10/25/05 Analyzed: 10/27/05						
Lead	0.0939	0.020	mg/l	0.100		93.9	85-115	8.27	20	
Duplicate (AJ52513-DUP1)	**Source: A510440-02**			Prepared: 10/25/05 Analyzed: 10/27/05						
Lead	ND	0.0020	mg/l		ND				20	
Matrix Spike (AJ52513-MS1)	**Source: A510440-02**			Prepared: 10/25/05 Analyzed: 10/27/05						
Lead	0.0939	0.020	mg/l	0.100	ND	93.9	70-130			
Matrix Spike Dup (AJ52513-MSD1)	**Source: A510440-02**			Prepared: 10/25/05 Analyzed: 10/27/05						
Lead	0.0936	0.020	mg/l	0.100	ND	93.6	70-130	0.320	20	

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ52401 - EPA 200.2 Hot Plate										
Blank (AJ52401-BLK1)				Prepared: 10/24/05 Analyzed: 10/28/05						
Molybdenum, dissolved	ND	0.020	mg/l							
Selenium, dissolved	ND	0.0050	"							
Vanadium, dissolved	ND	0.010	"							
LCS (AJ52401-BS1)				Prepared: 10/24/05 Analyzed: 10/28/05						
Molybdenum, dissolved	0.0999	0.020	mg/l	0.100		99.9	85-115			
Selenium, dissolved	0.0103	0.0050	"	0.0100		103	85-115			
Vanadium, dissolved	0.0978	0.010	"	0.100		97.8	85-115			
LCS Dup (AJ52401-BSD1)				Prepared: 10/24/05 Analyzed: 10/28/05						
Molybdenum, dissolved	0.101	0.020	mg/l	0.100		101	85-115	1.10	20	
Selenium, dissolved	0.0107	0.0050	"	0.0100		107	85-115	3.81	20	
Vanadium, dissolved	0.100	0.010	"	0.100		100	85-115	2.22	20	
Duplicate (AJ52401-DUP1)	**Source: A510440-01**			Prepared: 10/24/05 Analyzed: 10/28/05						
Molybdenum, dissolved	ND	0.020	mg/l		ND				20	
Selenium, dissolved	0.00421	0.0050	"		ND				20	
Vanadium, dissolved	ND	0.010	"		ND				20	
Matrix Spike (AJ52401-MS1)	**Source: A510440-01**			Prepared: 10/24/05 Analyzed: 10/28/05						
Molybdenum, dissolved	0.0978	0.020	mg/l	0.100	ND	97.8	70-130			
Selenium, dissolved	0.00801	0.0050	"	0.0100	ND	80.1	70-130			
Vanadium, dissolved	0.0988	0.010	"	0.100	ND	98.8	70-130			
Matrix Spike Dup (AJ52401-MSD1)	**Source: A510440-01**			Prepared: 10/24/05 Analyzed: 10/28/05						
Molybdenum, dissolved	0.0989	0.020	mg/l	0.100	ND	98.9	70-130	1.12	20	
Selenium, dissolved	0.00809	0.0050	"	0.0100	ND	80.9	70-130	0.994	20	
Vanadium, dissolved	0.0996	0.010	"	0.100	ND	99.6	70-130	0.806	20	

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ51907 - EPA 7199 Cr6 Water										
Blank (AJ51907-BLK1)				Prepared & Analyzed: 10/19/05						
Chromium, hexavalent	ND	0.0010	mg/l							
LCS (AJ51907-BS1)				Prepared & Analyzed: 10/19/05						
Chromium, hexavalent	0.00448	0.0010	mg/l	0.00400		112	80-120			
LCS Dup (AJ51907-BSD1)				Prepared & Analyzed: 10/19/05						
Chromium, hexavalent	0.00450	0.0010	mg/l	0.00400		112	80-120	0.445	20	
Duplicate (AJ51907-DUP1)		**Source: A510440-01**		Prepared & Analyzed: 10/19/05						
Chromium, hexavalent	ND	0.0010	mg/l		ND				30	
Matrix Spike (AJ51907-MS1)		**Source: A510440-01**		Prepared & Analyzed: 10/19/05						
Chromium, hexavalent	0.00409	0.0010	mg/l	0.00400	ND	102	70-130			
Matrix Spike Dup (AJ51907-MSD1)		**Source: A510440-01**		Prepared & Analyzed: 10/19/05						
Chromium, hexavalent	0.00414	0.0010	mg/l	0.00400	ND	104	70-130	1.22	20	

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ51922 - General Preparation										
Duplicate (AJ51922-DUP1)	**Source: A510444-05**			Prepared & Analyzed: 10/19/05						
pH	7.97	1.0	pH Units		7.9			0.882	20	
Batch AJ52610 - General Preparation										
Blank (AJ52610-BLK1)				Prepared: 10/26/05 Analyzed: 10/28/05						
Oil & Grease (HEM-SG)	ND	5.0	mg/l							
LCS (AJ52610-BS1)				Prepared: 10/26/05 Analyzed: 10/28/05						
Oil & Grease (HEM-SG)	8.00	5.0	mg/l	10.0		80.0	66-114			
LCS Dup (AJ52610-BSD1)				Prepared: 10/26/05 Analyzed: 10/28/05						
Oil & Grease (HEM-SG)	7.70	5.0	mg/l	10.0		77.0	66-114	3.82	24	

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ52604 - VOAs in Water GCMS										
Blank (AJ52604-BLK1)				Prepared & Analyzed: 10/25/05						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	*27.3*		"	*25.0*		*109*	*86-141*			
LCS (AJ52604-BS1)				Prepared & Analyzed: 10/25/05						
TPH as Gasoline	197	50	ug/l	200		98.5	75-126			
Surrogate: Toluene-d8	*27.4*		"	*25.0*		*110*	*86-141*			
LCS Dup (AJ52604-BSD1)				Prepared & Analyzed: 10/25/05						
TPH as Gasoline	191	50	ug/l	200		95.5	75-126	3.09	20	
Surrogate: Toluene-d8	*27.4*		"	*25.0*		*110*	*86-141*			
Matrix Spike (AJ52604-MS1)	**Source: A510427-01**			Prepared & Analyzed: 10/25/05						
TPH as Gasoline	212	50	ug/l	200	ND	106	32-166			
Surrogate: Toluene-d8	*27.5*		"	*25.0*		*110*	*86-141*			
Batch AJ52816 - EPA 3510B Water										
Blank (AJ52816-BLK1)				Prepared: 10/28/05 Analyzed: 11/01/05						
TPH as Diesel	ND	50	ug/l							
Surrogate: Tetratetracontane	*35.0*		"	*162*		*21.6*	*20-152*			
LCS (AJ52816-BS1)				Prepared: 10/28/05 Analyzed: 11/01/05						
TPH as Diesel	1570	50	ug/l	2000		78.5	52-136			
Surrogate: Tetratetracontane	*103*		"	*162*		*63.6*	*20-152*			
LCS Dup (AJ52816-BSD1)				Prepared: 10/28/05 Analyzed: 11/01/05						
TPH as Diesel	1210	50	ug/l	2000		60.5	52-136	25.9	25	QL-04
Surrogate: Tetratetracontane	*82.6*		"	*162*		*51.0*	*20-152*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag

Batch AJ52816 - EPA 3510B Water

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ52613 - VOAs in Water GCMS										
Blank (AJ52613-BLK1)				Prepared & Analyzed: 10/25/05						
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Bromofluorobenzene	*29.3*		*"*	*25.0*		*117*	*78-138*			
Surrogate: Dibromofluoromethane	*25.0*		*"*	*25.0*		*100*	*71-136*			
Surrogate: Toluene-d8	*27.3*		*"*	*25.0*		*109*	*88-139*			
LCS (AJ52613-BS1)				Prepared & Analyzed: 10/25/05						
Benzene	11.0	0.30	ug/l	10.0		110	68-129			
Toluene	11.6	0.30	"	10.0		116	76-137			
Ethylbenzene	12.3	0.50	"	10.0		123	78-136			
Xylenes (total)	33.0	0.50	"	30.0		110	76-134			
Surrogate: Bromofluorobenzene	*27.6*		*"*	*25.0*		*110*	*78-138*			
Surrogate: Dibromofluoromethane	*23.2*		*"*	*25.0*		*92.8*	*71-136*			
Surrogate: Toluene-d8	*26.2*		*"*	*25.0*		*105*	*88-139*			
LCS Dup (AJ52613-BSD1)				Prepared & Analyzed: 10/25/05						
Benzene	10.8	0.30	ug/l	10.0		108	68-129	1.83	25	
Toluene	11.6	0.30	"	10.0		116	76-137	0.00	25	
Ethylbenzene	12.3	0.50	"	10.0		123	78-136	0.00	25	
Xylenes (total)	33.2	0.50	"	30.0		111	76-134	0.604	25	
Surrogate: Bromofluorobenzene	*28.4*		*"*	*25.0*		*114*	*78-138*			
Surrogate: Dibromofluoromethane	*23.4*		*"*	*25.0*		*93.6*	*71-136*			
Surrogate: Toluene-d8	*26.8*		*"*	*25.0*		*107*	*88-139*			

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ52613 - VOAs in Water GCMS										
Matrix Spike (AJ52613-MS1)	**Source: A510496-01**			Prepared & Analyzed: 10/25/05						
Benzene	11.8	0.30	ug/l	10.0	ND	118	39-142			
Toluene	12.1	0.30	"	10.0	ND	121	44-148			
Ethylbenzene	13.0	0.50	"	10.0	ND	130	42-148			
Xylenes (total)	35.1	0.50	"	30.0	ND	117	43-145			
Surrogate: Bromofluorobenzene	*27.5*		*"*	*25.0*		*110*	*78-138*			
Surrogate: Dibromofluoromethane	*22.6*		*"*	*25.0*		*90.4*	*71-136*			
Surrogate: Toluene-d8	*25.8*		*"*	*25.0*		*103*	*88-139*			

Sheri Speaks

Sheri L. Speaks
Project Manager

11/2/2005

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

CHEMICAL EXAMINATION REPORT

ENSR International
10411 Old Placerville Rd., Suite 210
Sacramento, CA 95827-2508
Attn: Paul Wadding

Report Date: 11/02/05 13:05
Project No: 06940-264-130/813
Project ID: Unocal #0813, Ukiah

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
A510440	10/18/2005 16:10	ENSR	

Notes and Definitions

QL-04	The LCS/LCSD RPD for this analyte was outside of established control limits. Batch accepted based on acceptable recovery for both LCS/LCSD.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

BSK Submission #: 2005101453

BSK Sample ID #: 649508

Report Issue Date: 11/01/2005

Project ID: A510440

Project Desc:

Submission Comments:

Sample Type: Liquid

Sample Description: A510440-01 MW-1

Sample Comments: J flags on DISS SE, V, MO

Date Sampled: 10/18/2005
Time Sampled: 1400
Date Received: 10/20/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**ND**	mg/L	0.005	1	0.005	10/28/05	10/28/05
Bromide (Br)	EPA 300.1	**0.022**	mg/L	0.005	1	0.005	10/24/05	10/24/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code: *649508-0.0220*

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

BSK ANALYTICAL LABORATORIES

Certificate of Analysis

NELAP Certificate #04227CA
ELAP Certificate #1180

Sheri L. Speaks
Alpha Analytical Laboratories Inc
208 Mason Street
Ukiah, CA 95482

BSK Submission #: 2005101453

BSK Sample ID #: 649509

Report Issue Date: 11/01/2005

Project ID: A510440 Project Desc:

Submission Comments:

Sample Type: Liquid
Sample Description: A510440-02 MW-2
Sample Comments:

Date Sampled: 10/18/2005
Time Sampled: 1245
Date Received: 10/20/2005

Inorganics

Analyte	Method	Result	Units	PQL	Dilution	DLR	Prep Date/Time	Analysis Date/Time
Bromate (BrO3) with Ag/Ba Clean Up	EPA 300.1	**0.016**	mg/L	0.005	1	0.005	10/28/05	10/28/05
Bromide (Br)	EPA 300.1	**0.023**	mg/L	0.005	1	0.005	10/24/05	10/24/05

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%Rec: Percent Recovered (surrogates)

PQL: Practical Quantitation Limit
DLR: Detection Limit for Reporting : PQL x Dilution
ND: None Detected at DLR
pCi/L: Picocurie per Liter

H: Analyzed outside of hold time
P: Preliminary result
S: Suspect result. See Case Narrative for comments.
E: Analysis performed by External laboratory. See External Laboratory Report attachments.

Report Authentication Code: *649509-0.0390*

1414 Stanislaus Street Fresno, CA 93706-1623 Phone 559-497-2888, In CA 800-877-8310 Fax 559-485-6935

CHAIN OF CUSTODY

Lab: Alpha Analytical

TAT: Standard

Report results to:

Name	Margret Riggin
Company	ENSR
Mailing Address	10411 Old Placerville Road, Suite 210
City, State, Zip	Sacramento, CA 95827-2508
Telephone No.	916-362-7100
Fax No.	916-362-8100
E-Mail	mriggin@ensr.com

Project Information

Site Address:	122 Leslie St., Ukiah, CA
ENSR No.	06940-264-130
Unocal No.	813
Global ID No.	T0604593441

Special instructions and/or specific regulatory requirements:

A5104440-

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Conts.	TPHg (8015)	BTEX (8021B)	TRPH (1664)	Total Lead (6010)	TPHd (8015)	Bromate (300) / Bromide (300.0)	Chromium VI (7199)	Molybdenum / Vanadium (200.7)	Selenium (200.9)	pH (150.1)		Sample Condition/Comments	Preservative
MW-1	10/18/05	1400	GW	12	X	X	X	X	X	X	X	X	X	X		1	HCl/HNO3
MW-2	10/18/05	1345	GW	10	X	X	X	X	X	X	X	X	X	X		2	HCl/HNO3
QA			Liquid	1	X	X										3	Ice

Analyses Requested

Collected by:	Jon Rice	*Date/Time*	10/18/05, 1400
Relinquished by:		*Date/Time*	10/18/05, 1610
Relinquished by:		*Date/Time*	
Method of Shipment:			

Collector's Signature:	Jon Specks	*Date/Time*	10/18/05 1400
Received by:		*Date/Time*	10/18/05 1610
Received by:		*Date/Time*	
Sample Condition on Rcpt:			

*

jdemellorice@ENSR.com, 916 666 5553 THANKS!